STEREO DOUBLE CASSETTE DECK

# KX-W4070/W6070

# SERVICE MANUAL

KENWOOD

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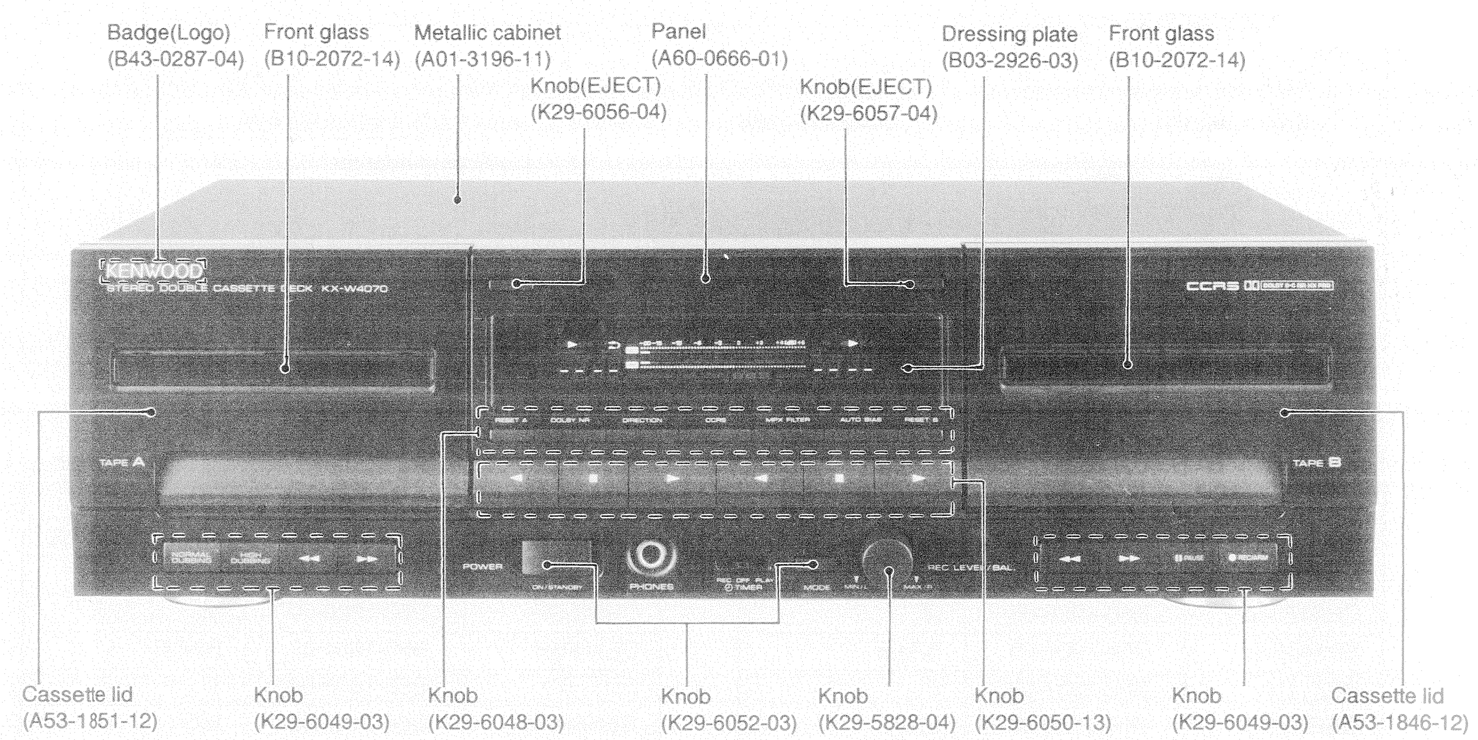
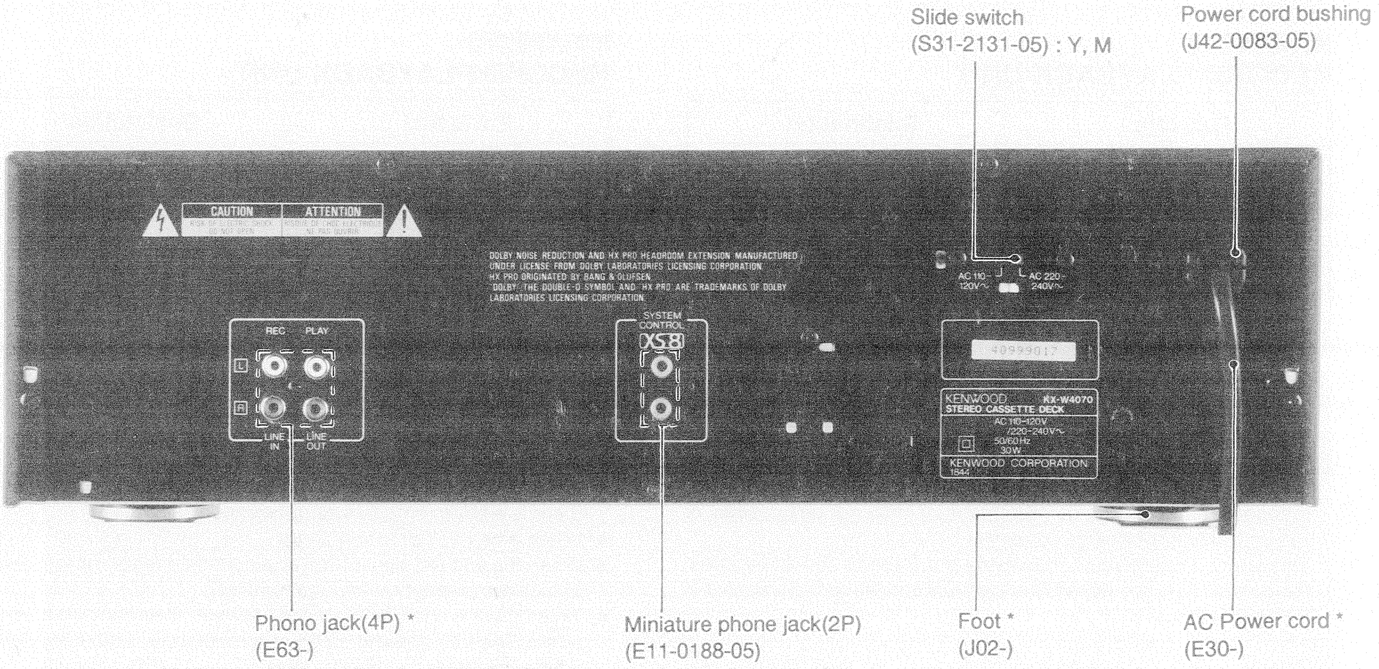
B51-5031-00(S) 3953

## [KX-W4070] M type


Badge(Logo)
(B43-0287-04)
Front glass
(B10-2072-14)
Metallic cabinet
(A01-3196-11)
Knob(EJECT)
(K29-6056-04)
Panel
(A60-0666-01)
Knob(EJECT)
(K29-6057-04)
Dressing plate
(B03-2926-03)
Front glass
(B10-2072-14)
Cassette lid
(A53-1851-12)
Knob
(K29-6049-03)
Knob
(K29-6048-03)
Knob
(K29-6052-03)
Knob
(K29-5828-04)
Knob
(K29-6050-13)
Knob
(K29-6049-03)
Cassette lid
(A53-1846-12)


Slide switch
(S31-2131-05) : Y, M
Power cord bushing
(J42-0083-05)
Phono jack(4P) *
(E63-)
Miniature phone jack(2P)
(E11-0188-05)
Foot *
(J02-)
AC Power cord *
(E30-)

* Refer to parts list on page 29.

# KX-W4070/W6070

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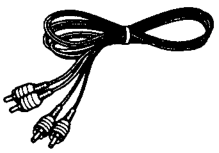
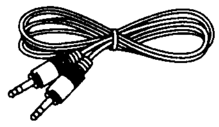
## ACCESSORIES

Audio cord ........................2
(E30-0505-05)

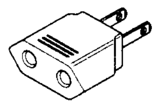


System control cord .........1
(E30-2733-05)



Except for U.S.A., Mexico, Canada, U.K., Europe and Australia

AC plug adaptor ...............1
(E30-0115-05)



### KX-W4070
### INSTRUCTION MANUAL

| | Parts No. | Destination |
|---|---|---|
| ENGLISH | B60-1903-00 | K,R,P,Y,M,T,E |
| FRENCH | B60-1904-00 | P,E |
| CHINESE | B60-1905-00 | M |
| SPANISH | B60-1906-00 | R,M,E |
| DUT, ITA | B60-1907-00 | E |
| GERMANY | B60-2128-00 | E,G |
| TAIWANESE | B60-2130-00 | M |

### KX-W6070
### INSTRUCTION MANUAL

| | Parts No. | Destination |
|---|---|---|
| ENGLISH | B60-1898-00 | K,R,P,Y,X,M,T,E |
| FRENCH | B60-1899-00 | P,E |
| CHINESE | B60-1900-00 | M |
| SPANISH | B60-1901-00 | R,M,E |
| DUT, ITA | B60-1902-00 | E |
| GERMANY | B60-2127-00 | E,G |
| TAIWANESE | B60-2129-00 | M |

### KX-W4070
### RECORD/PLAYBACK UNIT

| Parts No. | Destination |
|---|---|
| X28-2700-11 | KH, RH, PH |
| X28-2700-13 | R |
| X28-2700-22 | YH, MH |
| X28-2700-24 | M |
| X28-2702-72 | TH, EH, GH |

### KX-W6070
### RECORD/PLAYBACK UNIT

| Parts No. | Destination |
|---|---|
| X28-2700-10 | KH, RH, PH |
| X28-2700-12 | R |
| X28-2700-21 | YH, MH |
| X28-2700-23 | M |
| X28-2702-71 | XH, TH, EH, GH |

### Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

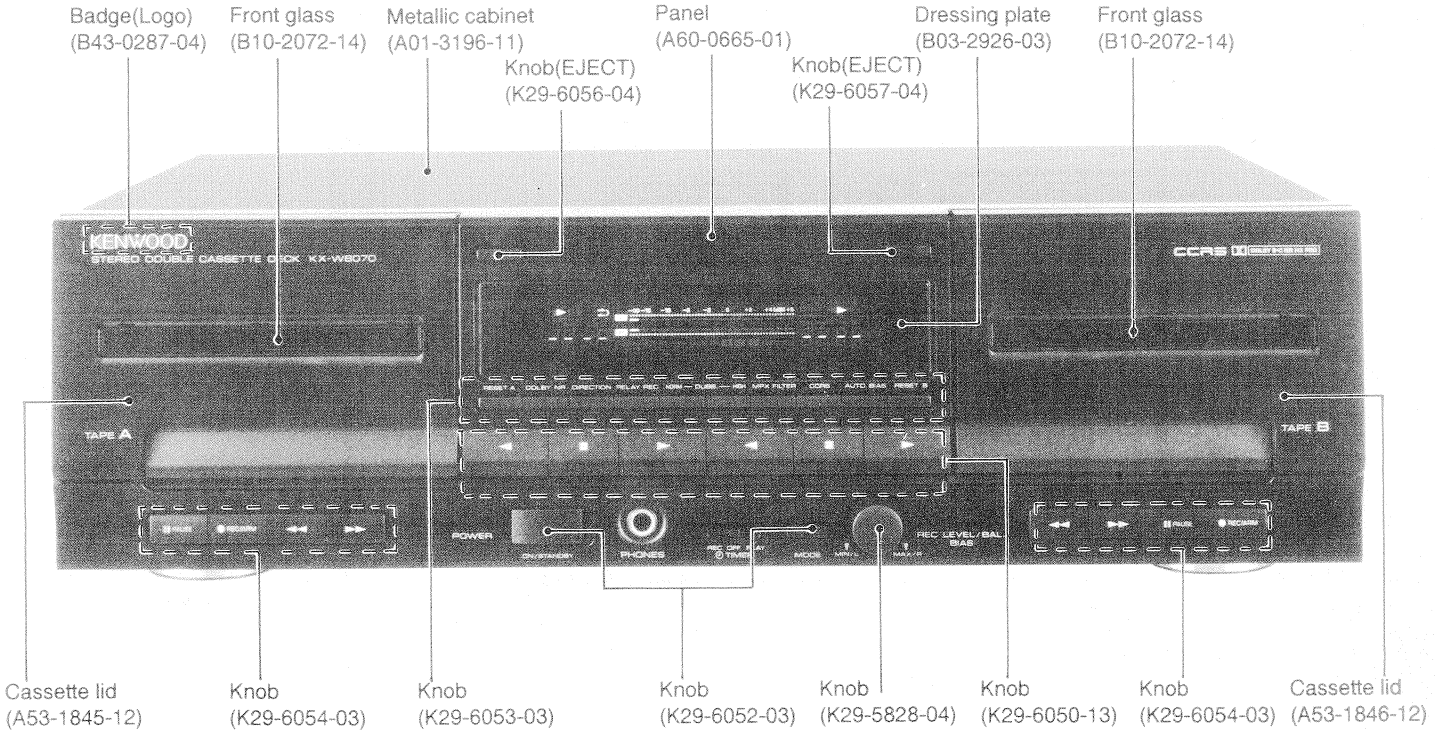
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

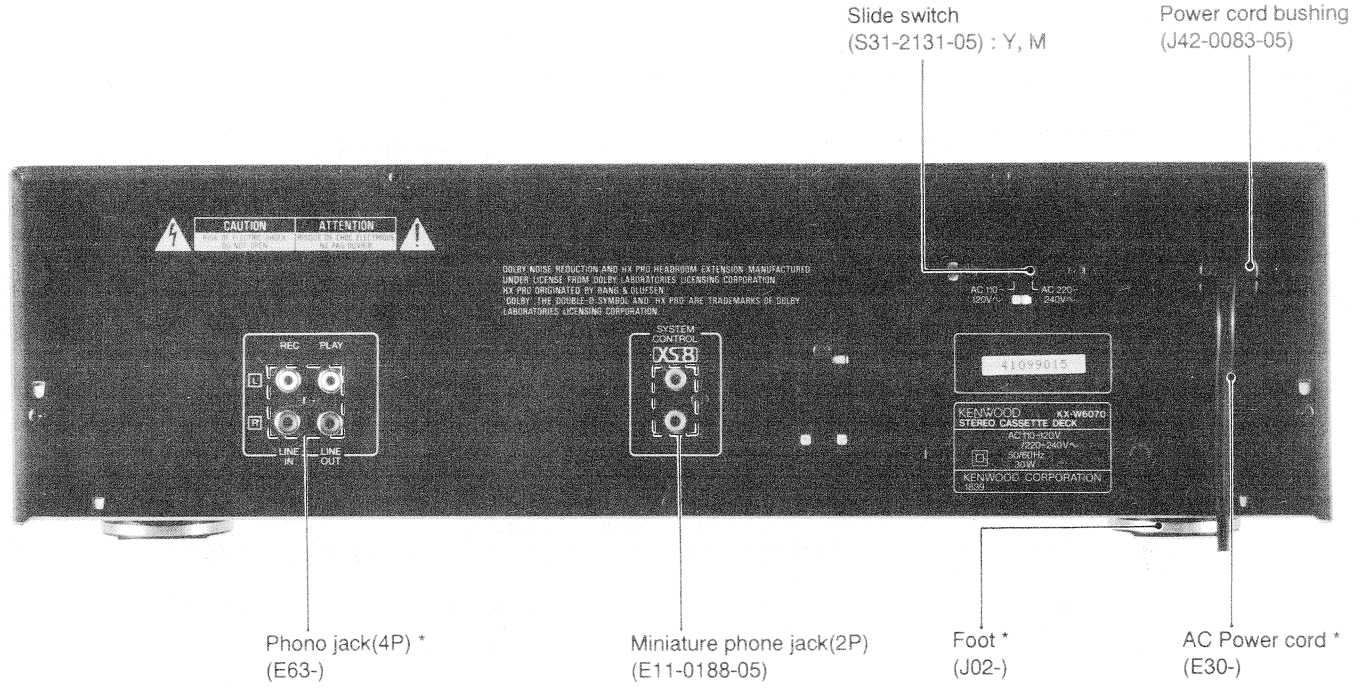
This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

## [KX-W6070] M type

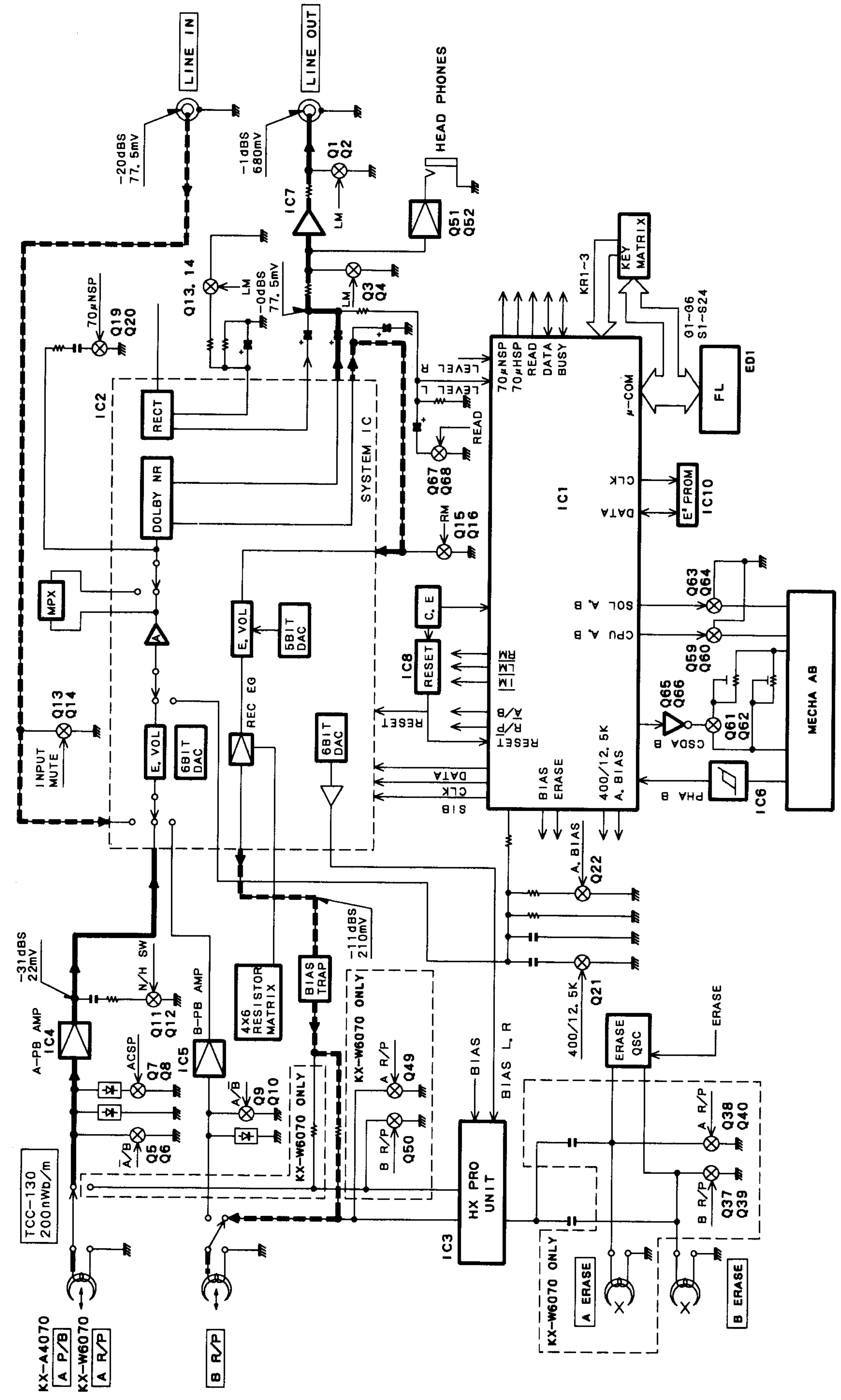

Badge(Logo)
(B43-0287-04)
Front glass
(B10-2072-14)
Metallic cabinet
(A01-3196-11)
Knob(EJECT)
(K29-6056-04)
Panel
(A60-0665-01)
Knob(EJECT)
(K29-6057-04)
Dressing plate
(B03-2926-03)
Front glass
(B10-2072-14)
KENWOOD
STEREO DOUBLE CASSETTE DECK KX-W6070
TAPE A
TAPE B
POWER
PHONES
Cassette lid
(A53-1845-12)
Knob
(K29-6054-03)
Knob
(K29-6053-03)
Knob
(K29-6052-03)
Knob
(K29-5828-04)
Knob
(K29-6050-13)
Knob
(K29-6054-03)
Cassette lid
(A53-1846-12)


Slide switch
(S31-2131-05) : Y, M
Power cord bushing
(J42-0083-05)
CAUTION
ATTENTION
REC
PLAY
LINE IN
LINE OUT
SYSTEM CONTROL
XS8
AC 110-120V
AC 220-240V
KENWOOD KX-W6070
STEREO CASSETTE DECK
KENWOOD CORPORATION
Phono jack(4P) *
(E63-)
Miniature phone jack(2P)
(E11-0188-05)
Foot *
(J02-)
AC Power cord *
(E30-)

* Refer to parts list on page 29.

# KX-W4070/W6070

## BLOCK DIAGRAM



LINE IN
LINE OUT
HEAD PHONES
-20dBS 77.5mV
-1dBS 680mV
-0dBS 77.5mV
-11dBS 210mV
-31dBS 22mV
IC7
LM
Q1 Q2
Q3 Q4
Q51 Q52
Q13, 14
Q19 Q20
70µNSP
KEY MATRIX
KR1~3
G1~G6 S1~S24
FL
ED1
IC2
RECT
DOLBY NR
SYSTEM IC
MPX
E. VOL
5BIT DAC
6BIT DAC
REC EQ
INPUT MUTE
Q13 Q14
LEVEL R
LEVEL L
READ
Q67 Q68
RM
Q15 Q16
70µNSP
70µHSP
READ
DATA
BUSY
µ-COM
IC1
CLK
DATA
E² PROM
IC10
C. E
RESET
IC8
R/P
A/B
RESET
SIB
CLK
DATA
BIAS
ERASE
400/12.5K
A. BIAS
SOL A, B
CPU A, B
CSDA B
PHA B
Q63 Q64
Q59 Q60
Q65 Q66
Q61 Q62
MECHA AB
IC6
A. BIAS
Q22
Q21
400/12.5K
4×6 RESISTOR MATRIX
BIAS TRAP
KX-W6070 ONLY
A R/P
Q49
B R/P
Q50
BIAS
BIAS L, R
HX PRO UNIT
IC3
ERASE OSC
ERASE
A R/P
Q38 Q40
B R/P
Q37 Q39
A ERASE
B ERASE
KX-W6070 ONLY
A-PB AMP
IC4
B-PB AMP
IC5
N/H SW
Q11 Q12
ACSP
Q7 Q8
A/B
Q9 Q10
A/B
Q5 Q6
TCC-130 200nWb/m
KX-A4070 A P/B
KX-W6070 A R/P
B R/P

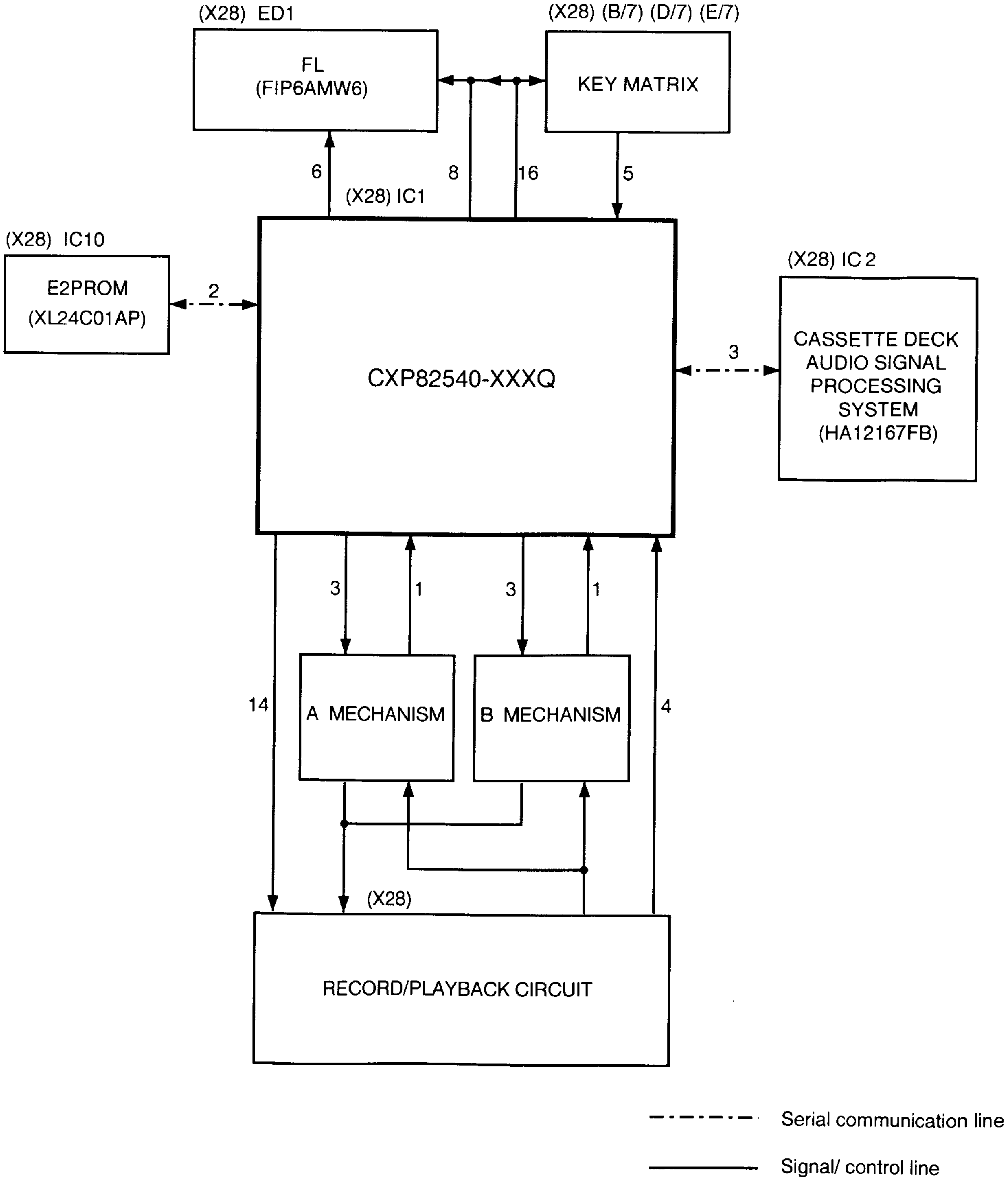
# CIRCUIT DESCRIPTION

## 1. Summary

| Pertinent model | Differences |
|---|---|
| KX-W4070 | Only B deck records<br>No manual bias function<br>No relay REC function |
| KX-W6070 | Both decks record<br>Manual bias function<br>Relay REC function |

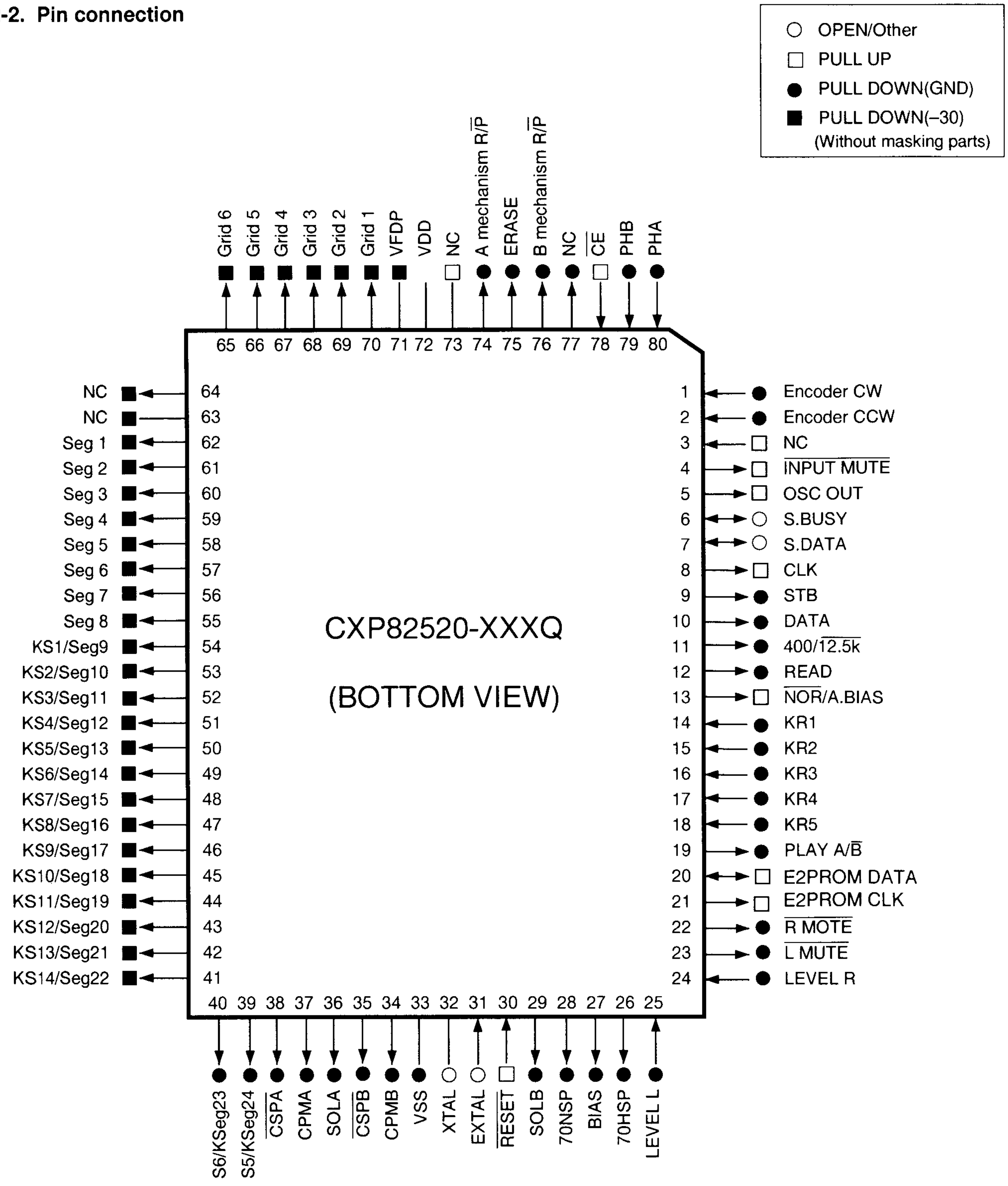
## 2. Hardware construction

### 2-1. Microprocessor periphery block diagram


(X28) ED1
FL
(FIP6AMW6)
(X28) (B/7) (D/7) (E/7)
KEY MATRIX
6
8
16
5
(X28) IC1
(X28) IC10
E2PROM
(XL24C01AP)
2
CXP82540-XXXQ
3
(X28) IC 2
CASSETTE DECK AUDIO SIGNAL PROCESSING SYSTEM
(HA12167FB)
3
1
3
1
14
4
A MECHANISM
B MECHANISM
(X28)
RECORD/PLAYBACK CIRCUIT
Serial communication line
Signal/ control line

# CIRCUIT DESCRIPTION

## 2-2. Pin connection


○ OPEN/Other
□ PULL UP
● PULL DOWN(GND)
■ PULL DOWN(–30)
(Without masking parts)
CXP82520-XXXQ
(BOTTOM VIEW)
1 Encoder CW ●
2 Encoder CCW ●
3 NC □
4 INPUT MUTE □
5 OSC OUT □
6 S.BUSY ○
7 S.DATA ○
8 CLK □
9 STB ●
10 DATA ●
11 400/12.5k ●
12 READ ●
13 NOR/A.BIAS □
14 KR1 ●
15 KR2 ●
16 KR3 ●
17 KR4 ●
18 KR5 ●
19 PLAY A/B ●
20 E2PROM DATA □
21 E2PROM CLK □
22 R MOTE ●
23 L MUTE ●
24 LEVEL R ●
25 LEVEL L ●
26 70HSP ●
27 BIAS ●
28 70NSP ●
29 SOLB ●
30 RESET □
31 EXTAL ○
32 XTAL ○
33 VSS ●
34 CPMB ●
35 CSPB ●
36 SOLA ●
37 CPMA ●
38 CSPA ●
39 S5/KSeg24 ●
40 S6/KSeg23 ●
41 KS14/Seg22 ■
42 KS13/Seg21 ■
43 KS12/Seg20 ■
44 KS11/Seg19 ■
45 KS10/Seg18 ■
46 KS9/Seg17 ■
47 KS8/Seg16 ■
48 KS7/Seg15 ■
49 KS6/Seg14 ■
50 KS5/Seg13 ■
51 KS4/Seg12 ■
52 KS3/Seg11 ■
53 KS2/Seg10 ■
54 KS1/Seg9 ■
55 Seg 8 ■
56 Seg 7 ■
57 Seg 6 ■
58 Seg 5 ■
59 Seg 4 ■
60 Seg 3 ■
61 Seg 2 ■
62 Seg 1 ■
63 NC ■
64 NC ■
65 Grid 6 ■
66 Grid 5 ■
67 Grid 4 ■
68 Grid 3 ■
69 Grid 2 ■
70 Grid 1 ■
71 VFDP ■
72 VDD
73 NC □
74 A mechanism R/P ●
75 ERASE ●
76 B mechanism R/P ●
77 NC ●
78 CE □
79 PHB ●
80 PHA ●

### 2-3. Pin description

| Pin No. | Name | I/O | Description | Active level |
|---|---|---|---|---|
| 1 | Encoder CW | I | Encoder clock signal input | |
| 2 | Encoder CCW | I | Encoder clock signal input | |
| 3 | NC | I | Not used | |
| 4 | $\overline{\text{INPUT MUTE}}$ | O | External input mute control output | L : Mute ON |
| 5 | OSC OUT | O | 400/12.5k Rectangular wave output | |
| 6 | S.BUSY | I/O | Serial BUSY signal I/O | H:BUSY L: READY |
| 7 | S.DATA | I/O | Serial Data signal I/O | |
| 8 | CLK | O | System IC clock output | |
| 9 | STB | O | System IC strobe signal output | |
| 10 | DATA | O | System IC serial data output | |
| 11 | 400/$\overline{\text{12.5k}}$ | O | Rectangular wave filter switch | H:400Hz L:12.5kHz |
| 12 | READ | O | Bias data READ select | H:ON |
| 13 | $\overline{\text{NOR}}$/A.BIAS | O | OSC oscillation attenuate | H:ON |
| 14~18 | KR1~KR5 | I | Key return signal input KR1~KR5 | |
| 19 | PLAY A/$\overline{\text{B}}$ | O | A/B playback amplifier switch | H:B deck L:A deck |
| 20 | E2P DATA | I/O | E2PROM data I/O | |
| 21 | E2P CLK | O | E2PROM clock output | |
| 22 | $\overline{\text{R MUTE}}$ | O | REC mute output control | L:Mute ON |
| 23 | $\overline{\text{L MUTE}}$ | O | LINE mute output control | L:Mute ON |
| 24 | LEVEL R | I | Rch level input | |
| 25 | LEVEL L | I | Lch level input | |
| 26 | 70HSP | O | Playback equalizer control | H:ON |
| 27 | BIAS | O | Bias control | H:ON |
| 28 | 70NSP | O | Playback equalizer control | H:ON |
| 29 | SOLB | O | B solenoid control | H:ON |
| 30 | $\overline{\text{RESET}}$ | I | Reset signal input | L:RESET |
| 31 | EXTAL | I | Clock crystal connector terminal | |
| 32 | XTAL | | Clock crystal connector terminal | |
| 33 | Vss | | GND | |
| 34 | CPMB | O | B capstan motor control | H:ON |
| 35 | $\overline{\text{CSPB}}$ | O | B castan motor switch | H:Normal L:Hi speed |
| 36 | SOLA | O | A solenoid control | H:ON |
| 37 | CPMA | O | A castan motor control | H:ON |
| 38 | $\overline{\text{CSPA}}$ | O | A capstan motor switch | H:Normal L:Hi speed |
| 39~54 | KS16/Seg24~KS1/Seg9 | O | Key scan signal/ FL segment signal output | |
| 55~62 | Seg8~Seg1 | O | FL segment signal output | |
| 63 | NC | O | Not used | |
| 64 | NC | O | Not used | |

| Pin No. | Name | I/O | Description | Active level |
|---|---|---|---|---|
| 65~70 | Grid6~Grid1 | O | FL grid control output | |
| 71 | $V_{FDP}$ | | FLtube drive voltage (–30V) | |
| 72 | $V_{DD}$ | | Positive power supply terminal (+5V) | |
| 73 | NC | | Not usesd(PULL UP) | |
| 74 | A mech $R/\overline{P}$ | O | A REC/PLAY switch | H : REC L : PLAY |
| 75 | ERASE | O | ERASE head control output | H : ON |
| 76 | B mech $R/\overline{P}$ | O | B REC/PLAY switch | H : REC L : PLAY |
| 77 | NC | O | Not used | |
| 78 | $\overline{CE}$ | I | AC-OFF detect voltage input | L : AC-OFF |
| 79 | PHB | I | B Real pulse input | |
| 80 | PHA | I | A Real pulse input | |

# CIRCUIT DESCRIPTION

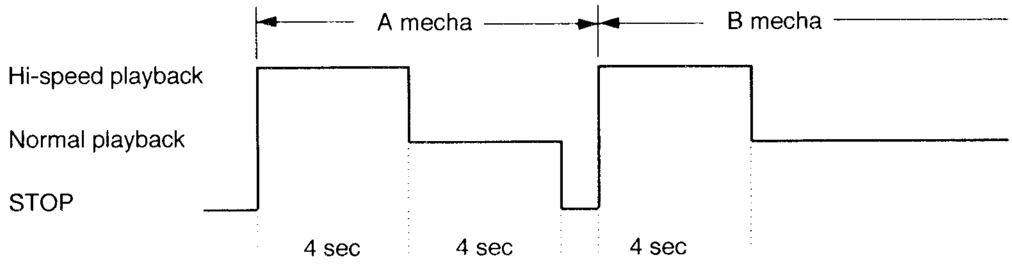
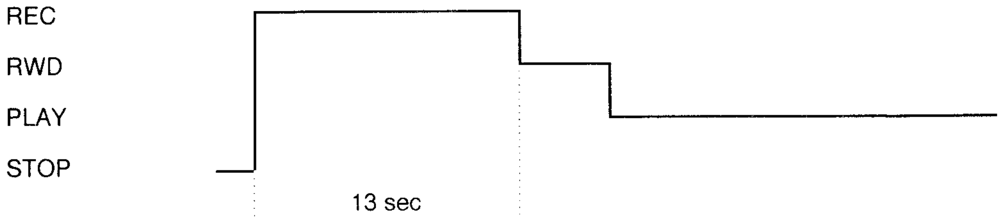
## 3. Test mode

This explains concerning the main unit test mode and printed circuit test mode.

### 3-1. Test mode

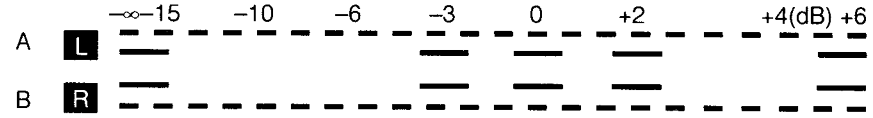
1) Setting
   By turning AC-ON while TP5 and TP6 are diode-shorted, the unit powers on in the default initial condition; all lights are illuminated for 1.5 seconds after POWER-ON.
2) Cancel
   Press the B PAUSE key or turn AC-OFF.
3) Operation

### 3-1-1. Operation explanation table

| Key | Operation |
|---|---|
| Timer PLAY | • **Playback system auto-adjust test**<br>Start by turning the timer slide switch to PLAY and turning AC-ON.<br><br> A mecha<br>B mecha<br>Hi-speed playback<br>Normal playback<br>STOP<br>4 sec<br>4 sec<br>4 sec<br>After the all-illuminated mode clears, the A mechanism conducts high-speed playback for 4 seconds. Without lowering the head, 4 seconds later normal play is conducted for a 4-second interval, and then the unit stops.<br>Next the B mechanism conducts high-speed playback for 4 seconds, and without lowering the head, 4 seconds later normal play is conducted for a 4-second interval.<br>Also, when there is no tape in the A deck, operation starts from the B deck.<br>※ All operations are carried out in the FORWARD direction. |
| Timer REC | • **Record system auto-adjust test**<br>Start by turning the timer slide switch to REC and turning AC-ON.<br><br> <br>After the all-illuminated mode clears, REC is conducted with Dolby B for 13 seconds. 13 seconds later the tape is rewound to the REC start position and PLAY carried out using Dolby B.<br>This is done with deck A, unless there is no tape in A, in which case it is done with deck B.<br>※ All operations are carried out in the FORWARD direction. |
| REC | • **4-second REC**<br>After 4-second REC with by pressing the REC key, the deck is rewound to the REC start position and PLAY mode entered. |

# KX-W4070/W6070

## CIRCUIT DESCRIPTION

| Key | Operation |
|---|---|
| FF FORWARD<br>PLAY | **● Tape speed adjustment PLAY**<br>During normal playback (FORWARD direction) , pressing the FF key conducts high-speed playback without lowering the head.<br>During high-speed playback (FORWARD direction), pressing the PLAY key conducts normal playback without lowering the heads. |
| HIGH DUBBING<br>NORMAL DUBBING | **● REC LEVEL adjustment (MODE : LEVEL)**<br>Pressing the HIGH DUBBING key causes the REC LEVEL to change from 0dB to −15dB to ∞dB.<br>Pressing the NORMAL DUBBING key causes the REC LEVEL to change from ∞dB to −15dB to 0dB. |
| CCRS | **● CCRS LEVEL DOWN check**<br>Pressing the CCRS key sets the REC LEVEL to −6dB and the B deck enters the REC PAUSE mode.<br>When an excessively strong signal is input from outside the unit, this automatically lowers the REC level. (The same operation as during the normal mode.) |
| Not use | **● Mechanism switch status display**<br>The mechanism switch status is displayed using whatever level meter position may be desired.<br> −∞−15<br>−10<br>−6<br>−3<br>0<br>+2<br>+4(dB) +6<br>A<br>L<br>B<br>R<br>−3dB : Tape detect switch (illuminates when there is a tape)<br>0dB : FORWARD record okay switch (illuminates when allowed)<br>+2dB : Chrome tape detect switch (illuminates with normal tape)<br>+6dB : REVERSE record okay switch (illuminates when allowed) |
| B PAUSE | **● Test mode 1 clear**<br>Clears test mode 1 and enters normal mode. |
| Other | **● Conduct normal operation.** |

### 3-2. Backup data reset

a. When the B STOP key is depressed during AC-ON, the unit starts in the default initial condition.

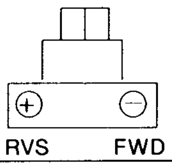
b. When started in TEST mode, the unit starts in the default initial condition.

c. The serial data length is kept the same as that of the current mode.

### 3-2-1. Default initial condition settings

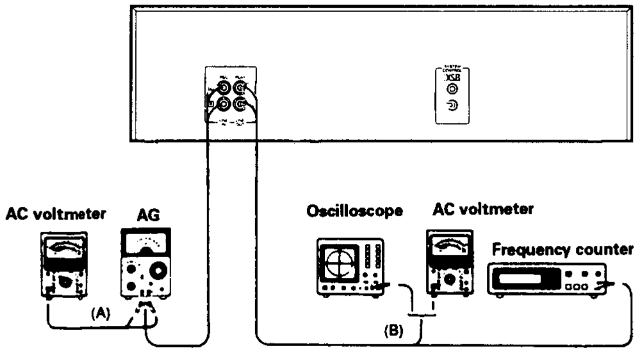
| Item | Condition |
|---|---|
| MPX filter | OFF |
| DOLBY | OFF |
| A deck R/P | PLAY |
| B deck R/P | PLAY |
| PLAY EQ A/B | A |
| 70 NORMAL SP | OFF |
| 70 HIGH SP | OFF |
| REC MUTE | ON |
| LINE MUTE | ON |
| A deck BIAS | OFF |
| B deck BIAS | OFF |
| ERASE | OFF |
| Electric VOL REC level | −15dB |
| Electric VOL REC balance | Center |
| BIAS fine adjusment value | Center (0) |
| SOL | OFF |
| CPM | ON(1sec)→ OFF |
| CSP | NORMAL |
| POWER condition | OFF |
| Direction | Foward (►) |
| Direction mode | Reverse mode ( ⥂ ) |
| RELAY | OFF |

# ADJUSTMENT

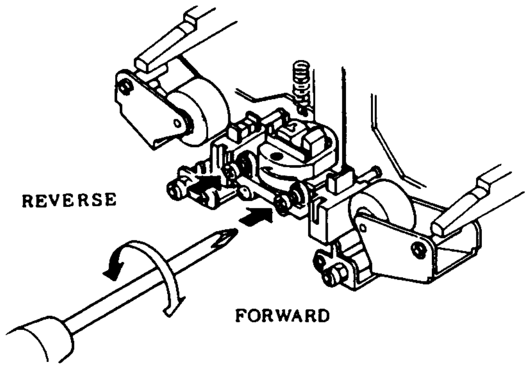
| No. | ITEM | INPUT SETTING | OUTPUT SETTING | DECK SETTING | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **Unless otherwise specified, set the respective switches as follows : TAPE : NORMAL, DOLBY : OFF 0dBs = 0.775V**<br>**I. Cassette mechanism section(Adjustment of the REC/PLAY HEAD)** | | | | | | | |
| (1) | DEMAGNETI-ZATION and CLEANING | — | — | POWER OFF<br>Demagnetization<br>Cleaning<br>PLAY | REC/PLAY head<br>Erase head<br>Capstan<br>Pinch roller | Demagnetize the REC/PLAY head with a head eraser. Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol. | |
| (2) | AZIMUTH of the REC/PLAY HEAD | SCC-1727<br>TCC-153<br>MTT-114<br>10kHz, -10dB | — | PLAY |  | Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajous waveform pattern of the oscilloscope to become close to a 45° straight line. | (a) |
| **II. PC BOARD adjustment** **Note : Carry out the high-speed adjustment in the first place.** | | | | | | | |
| [1] | TAPE SPEED (HI SPEED) | SCC-1727<br>TCC-110<br>MTT-111<br>3kHz | — | *TEST MODE | VR1 (A)<br>VR2 (B) | Adjust the tape speed so that 6kHz is obtained at the center of the tape. | |
| [2] | TAPE SPEED (NORMAL) | | | | VR3 (A)<br>VR4 (B) | Adjust the tape speed so that 3kHz is obtained at the center of the tape. | |

*Short circuit TP5, TP6 by diode (TP5 –|◁– TP6) and turn the POWER ON. FF key : High-speed, PLAY key : Normal-speed.

**System connections**

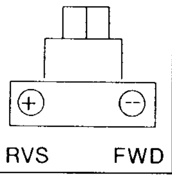


**(a) Azimuth adjustment screw**



∗ Please refer to Automatic Adjustment for Playing, Recording, BIAS level adjustment.

# AJUSTES

| Orden | ítem | Adjuste de entrada | Ajuste de salida | Ajuste de la platina | Puntos de ajuste | MÉtodo de ajuste | Fig. |
|---|---|---|---|---|---|---|---|
| A menos que se indique lo contrario, ajustar los interruptores respectivos de la manera siguiente :<br>TAPE : NORMAL, DOLBY : OFF | | | | | | 0dBs = 0.775V | |
| I. sección del mecanismo de la cassette (ajuste de la cabeza de GRABACION/ REPRODUCCION) | | | | | | | |
| (1) | DEMAGNETIZACION y LIMPIEZA | — | — | ALIMENTACION: apagado, desmagnetizaión, REPRODUCCION | Cabezas de GRABACION/ REPRODUCCION, cabezas de borrado, ejes de arrastre, rodillos presores | Demagnetizar las cabezas de grabación/reproducción con un borrador de cabezas. Limpiar las cabezas de grabación/ reproducción, cabezas de borrado, ejes de arrastre y rodillos presores con un bastoncillo de algodón humedecido en alcohol. | |
| (2) | ACIMUT de la cabeza de GRABACION/ REPRODUCCION | SCC-1727<br>TCC-153<br>MTT-114<br>10kHz, -10dB | — | REPRODUCCION (PLAY) |  | Ajustar la salida al nivel máximo y regular el tornillo de ajuste del acimut para la forma de onda de Lissajous del osciloscopio de manera que sea lo más cerano posible a una línea recta de 45°. | (a) |
| II. Ajuste de la tarjeta circuit impreso | | | Nota : Efectuar primero el ajuste de la alta velocidad. | | | | |
| [1] | VELOCIDAD DE LA CINTA (ALTA VELOCIDAD) | SCC-1727<br>TCC-110<br>MTT-111<br>3kHz | — | *MODE DE PRUEBA | PLATINA A:VR1<br>PLATINA B:VR2 | Ajustar de manera que la hasta obtener un nivel de 6kHz en el centro de la cinta. | |
| [2] | VELOCIDAD DE LA CINTA (NORMAL) | | | | PLATINA A:VR3<br>PLATINA B:VR4 | Ajustar de manera que la hasta obtener un nivel de 3kHz en el centro de la cinta. | |

*Cortocircuitar (en el diodo) TP5 y TP6 y alimentar energía. Tecia FF: alta velocidad ; tecia de reproducción: vecidad normal.
(TP5 —|◁— TP6)

# ADJUSTMENT

## Playback Level & REC Level Adjustment

### 1. Automatic adjustment

**• Playback level adjustment**

1. Turn the POWER OFF (AC OFF).
2. Insert the TCC-130 into respective deck A or B.
3. Short TP4-TP6 and turn the AC plug receptacle ON.
4. When "END P" is displayed in FL, adjustment is complete.
   If an error occurs, it will display the location causing the "CAL E", "PL E", etc.
   Turn the POWER OFF (AC OFF) or the REC PAUSE key twice (one press is for the test mode) to return to normal operation.

**• Recording level and bias adjustment**

1. Turn the POWER OFF (AC OFF).
2. Insert the TCC-106A into deck B.
3. Short TP4-TP6 and turn the AC plug receptacle ON.
4. When "END" is displayed in FL, adjustment is complete.
   If an error occurs, it will display the location causing the "RL E", "BL E", etc.
   Turn the POWER OFF (AC OFF) or the PAUSE key twice (one press is for the test mode) to return to normal operation.

**• Indication items of FL tube**

| | |
|---|---|
| END P | Normal completion state of playback level adjustment mode. |
| END | Normal completion state of all (playback/REC level) adjustment mode. |
| CAL E | Lch ERR state of sensitivity correction. |
| CAR E | Rch ERR state of sensitivity correction. |

*Counter A*

| | |
|---|---|
| PL E | Lch ERR state of A PB adjustment. |
| PR E | Rch ERR state of A PB adjustment. |

*Counter B*

| | |
|---|---|
| PL E | Lch ERR state of B PB adjustment. |
| PR E | Rch ERR state of B PB adjustment. |

*Counter B*

| | |
|---|---|
| RL E | Lch ERR state of B REC EQ adjustment. |
| RR E | Rch ERR state of B REC EQ adjustment. |

*Counter B*

| | |
|---|---|
| BL E | Lch ERR state of B BIAS adjustment. |
| BR E | Rch ERR state of B BIAS adjustment. |

***NOTE :***

- The playback level can be adjusted independently for A or B. The procedure in this case as well is as in the above procedure.
- Turn off the display to suppress power fluctuations and other such problems during automatic adjustment.
- The playback level adjustment is done with the DOLBY level as the standard value, so be sure to use a 200nWb/m (315Hz or 400Hz) tape.

### 2. Manual adjustment

**• Playback level adjustment**

1. Turn the POWER OFF (AC OFF).
2. Turn the AC plug receptacle ON while shorting the TP7-TP6. Then open TP7-TP6.
3. Insert the TCC-130 into deck A and play.
4. Deck A Lch level adjustment
   The initial FL display is "PL 00". The "00" displays the step number. Since the initial value is set at 30, adjust it at this setting by turning the REC LEVEL (∨∧) key.
   Adjustment level : TCC-130 (200nWb/m)→ –1dBs (690mV). When using 160nWb/m or 250nWb/m tapes set to 4dBs and 0dBs respectively.
5. Press the DUBB NOR key.
6. When the DISPLAY key is pressed, the display switches to the "PR 00".
7. Deck A Rch level adjustment : Same as Lch
8. Press the DUBB NOR key.
9. Press the DISPLAY key.
10. Insert the TCC-130 into deck B and play.
11. Deck B Lch level adjustment
12. Press the DUBB NOR key.
13. Press the DISPLAY key.
14. Deck B Rch level adjustment
15. Press the DUBB NOR key.
16. Press the DISPLAY key.

**• Recording level and bias adjustment**

1. Insert the recording tape into deck B (A BEX TCC-106A or TDK AC-224) and set the AG to 400Hz.
2. Press the REC key to start recording and adjust the AG so that the output becomes –20dBs.
   (If you press the PAUSE key at this time, manual adjustment will be cancelled, so be careful.)
   Playback the recorded tape and turn the level volume so that the output becomes –20dBs.
   (It changes about 0.2dB with each step.)
   Lch REC level adjustment.
3. Press the DUBB NOR key.
4. Press the DISPLAY key.
5. Rch REC level adjustment : Same as Lch
6. Press the DUBB NOR key.
7. Press the DISPLAY key.
8. Set the AG to 125kHz, then press the REC key to begin recording. Adjust yhe AG so that the output becomes –20dBs. Playback the recorded tape and adjust the level volume so that the output becomes –20dBs.

## ADJUSTMENT

(It changes about 0.4dB~0.5dB with each step.)
Lch REC bias adjustment.

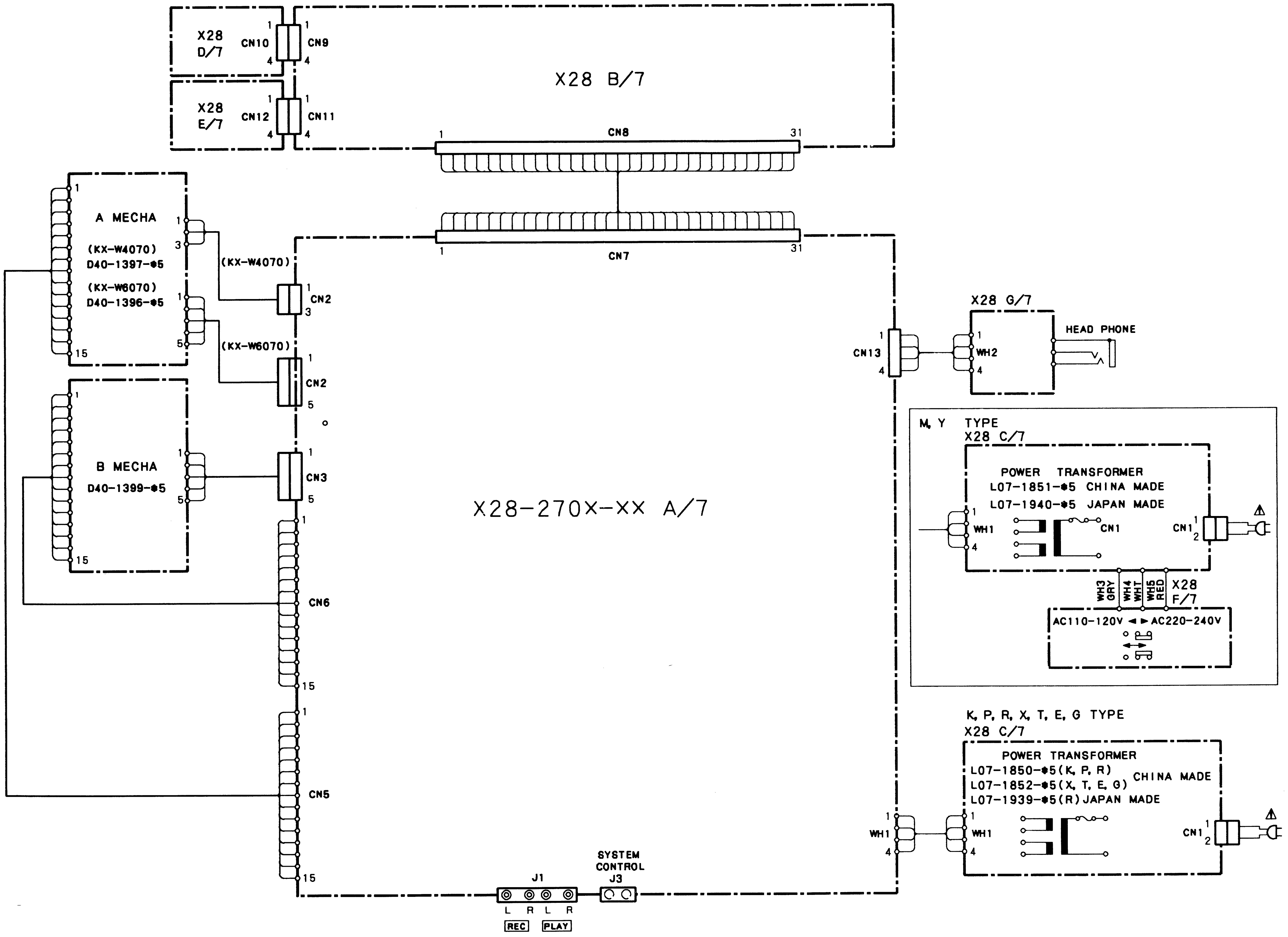
9. Press the DUBB NOR key.
10. Press the DISPLAY key.
11. Deck B Rch bias adjustment
12. Press the DUBB NOR key.

***NOTE :***

- The PAUSE key cancels the Adjustment mode, so do press it during adjustment.
- When adjusting manually, the DUBB NOR key and DUBB HIGH key respectively become the MODE WRITE and ALL WRITE keys, so you need not press the DUBB NOR key for each adjustment mode and can just press the DUBB HIGH key when all the adjustments have been completed.
- When manual adjustment is turned on, all the adjustment data is initialized, so whether or not you make an adjustment, at the end, after writing data, you should cancel using the DUBB HIGH key or another key.

# KX-W4070/W6070 KX-W4070/W6070

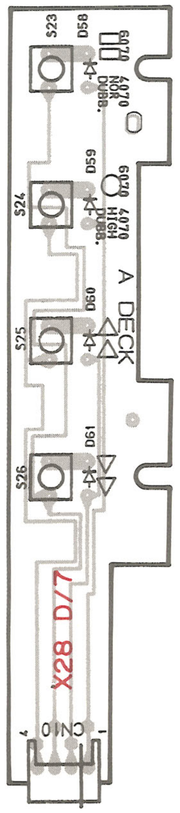
## WIRING DIAGRAM

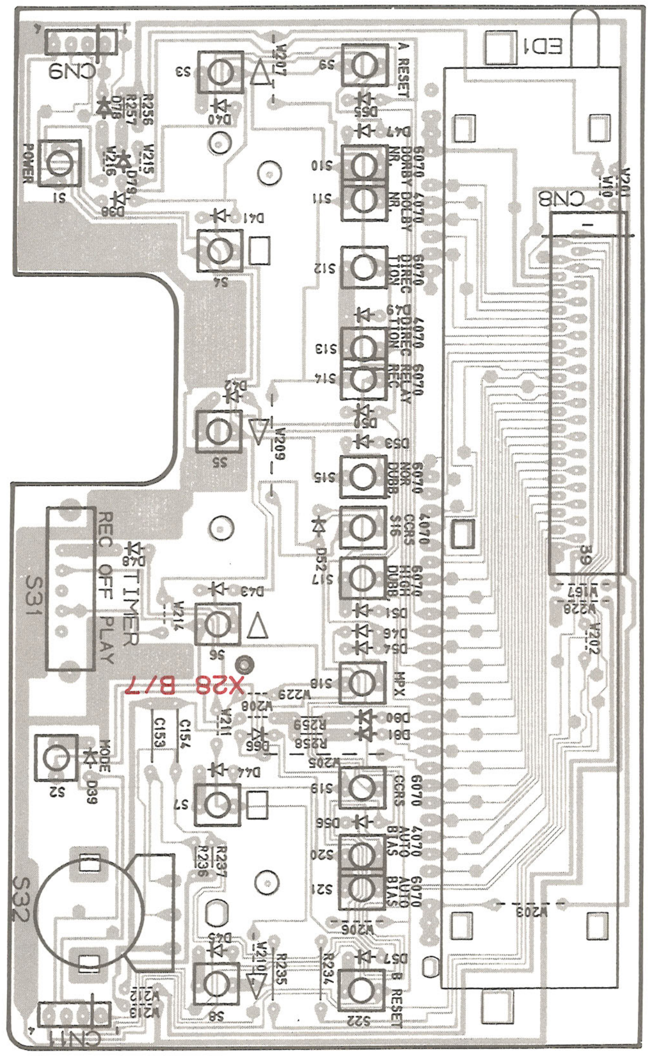


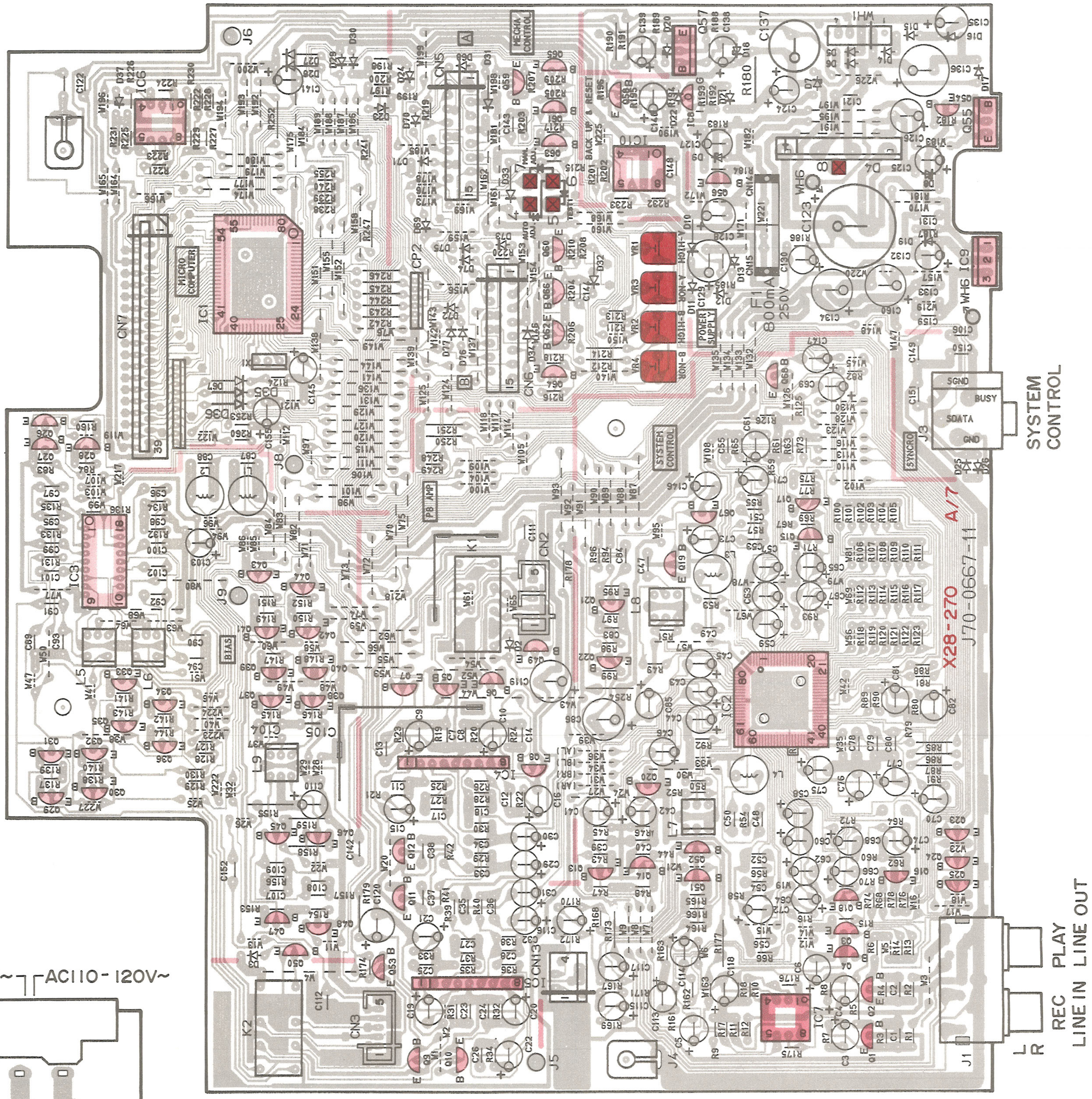
X28 D/7
CN10
CN9
X28 E/7
CN12
CN11
X28 B/7
CN8
1
31
CN7
A MECHA
(KX-W4070)
D40-1397-05
(KX-W6070)
D40-1396-05
(KX-W4070)
CN2
(KX-W6070)
CN2
B MECHA
D40-1399-05
CN3
CN6
CN5
X28-270X-XX A/7
X28 G/7
HEAD PHONE
CN13
WH2
M, Y TYPE
X28 C/7
POWER TRANSFORMER
L07-1851-05 CHINA MADE
L07-1940-05 JAPAN MADE
WH1
CN1
CN1
WH3 GRY
WH4 WHT
WH5 RED
X28 F/7
AC110-120V ◄ ► AC220-240V
K, P, R, X, T, E, G TYPE
X28 C/7
POWER TRANSFORMER
L07-1850-05(K, P, R)
L07-1852-05(X, T, E, G) CHINA MADE
L07-1939-05(R) JAPAN MADE
WH1
WH1
CN1
J1
L R L R
REC
PLAY
SYSTEM CONTROL
J3

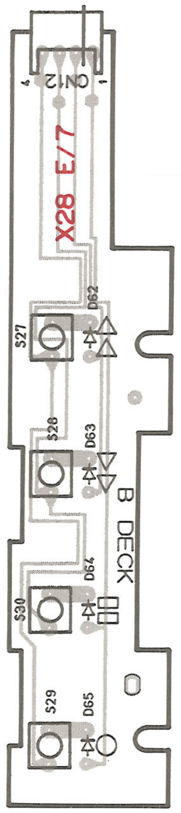
# PC BOARD (Component side view)

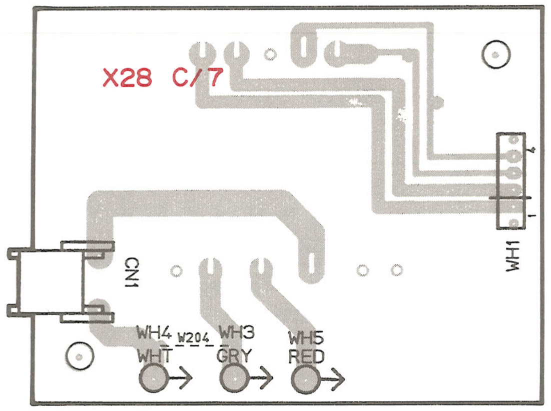
**RECORD/PLAYBACK UNIT**
**(X28-2700-24 : M ; 0-13 : R ; 0-11 : KH, RH, PH ; 0-22 : YH, MH ; 2-72 : TH, EH, GH) : KX-W4070**
**(X28-2700-23 : M ; 2-73 : J ; 0-12 : R ; 0-10 : KH, RH, PH ; 0-21 : YH, MH ;**
**2-71 : XH, TH, EH, GH) : KX-W6070**

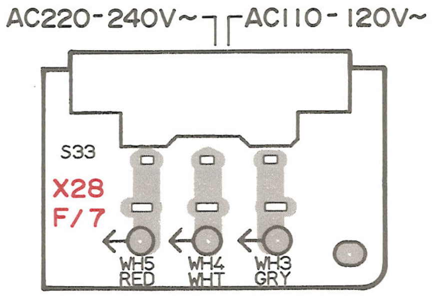

X28 D/7
A DECK
S23
S24
S25
S26
D58
D59
D60
D61
CN10

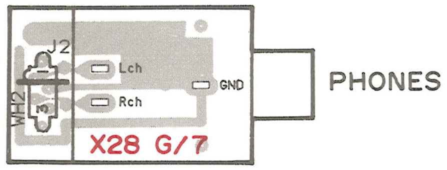

X28 B/7
CN9
CN8
CN11
ED1
POWER
S1
S2
S31
S32
REC OFF PLAY
TIMER
A RESET
B RESET
MODE
39


A/7
X28-270
J70-0667-11
SYSTEM CONTROL
SGND
BUSY
SDATA
GND
SYNCRO
J3
J6
J7
J8
J1
J4
J5
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC10
CN2
CN3
CN5
CN6
CN7
CP2
K1
K2
F1
800mA
250V
MICRO COMPUTER
MECHA CONTROL
POWER SUPPLY
SYSTEM CONTROL
BIAS
PB AMP
BACK UP & RESET
WH1
WH6
C137
R180
PLAY LINE OUT
REC LINE IN
L
R


X28 E/7
B DECK
CN12
S27
S28
S29
S30
D62
D63
D64
D65


X28 C/7
CN1
WH1
WH4
W204
WH3
WH5
WHT
GRY
RED


AC220-240V~
AC110-120V~
S33
X28
F/7
WH5
RED
WH4
WHT
WH3
GRY

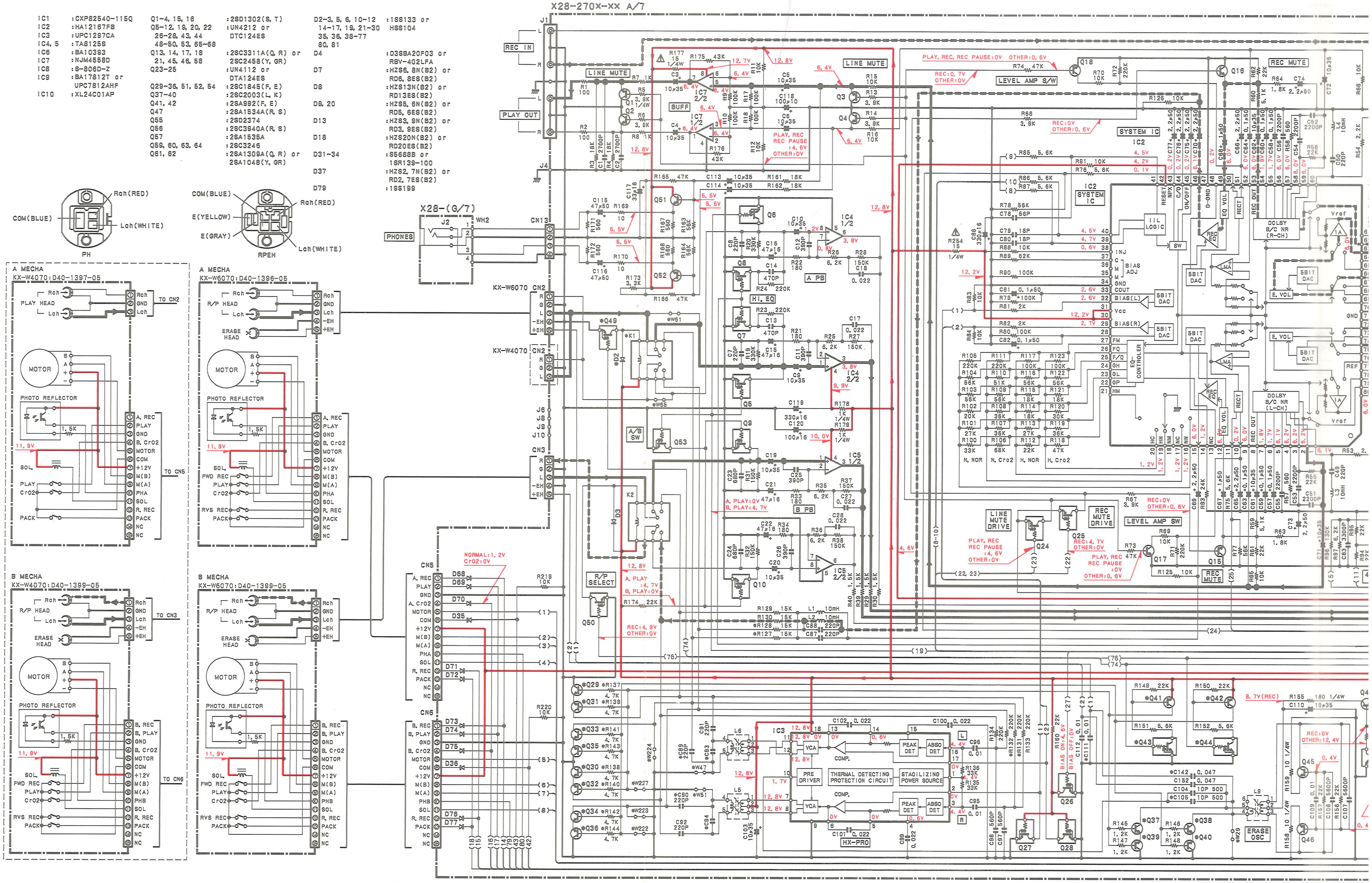

J2
Lch
Rch
GND
WH2
X28 G/7
PHONES

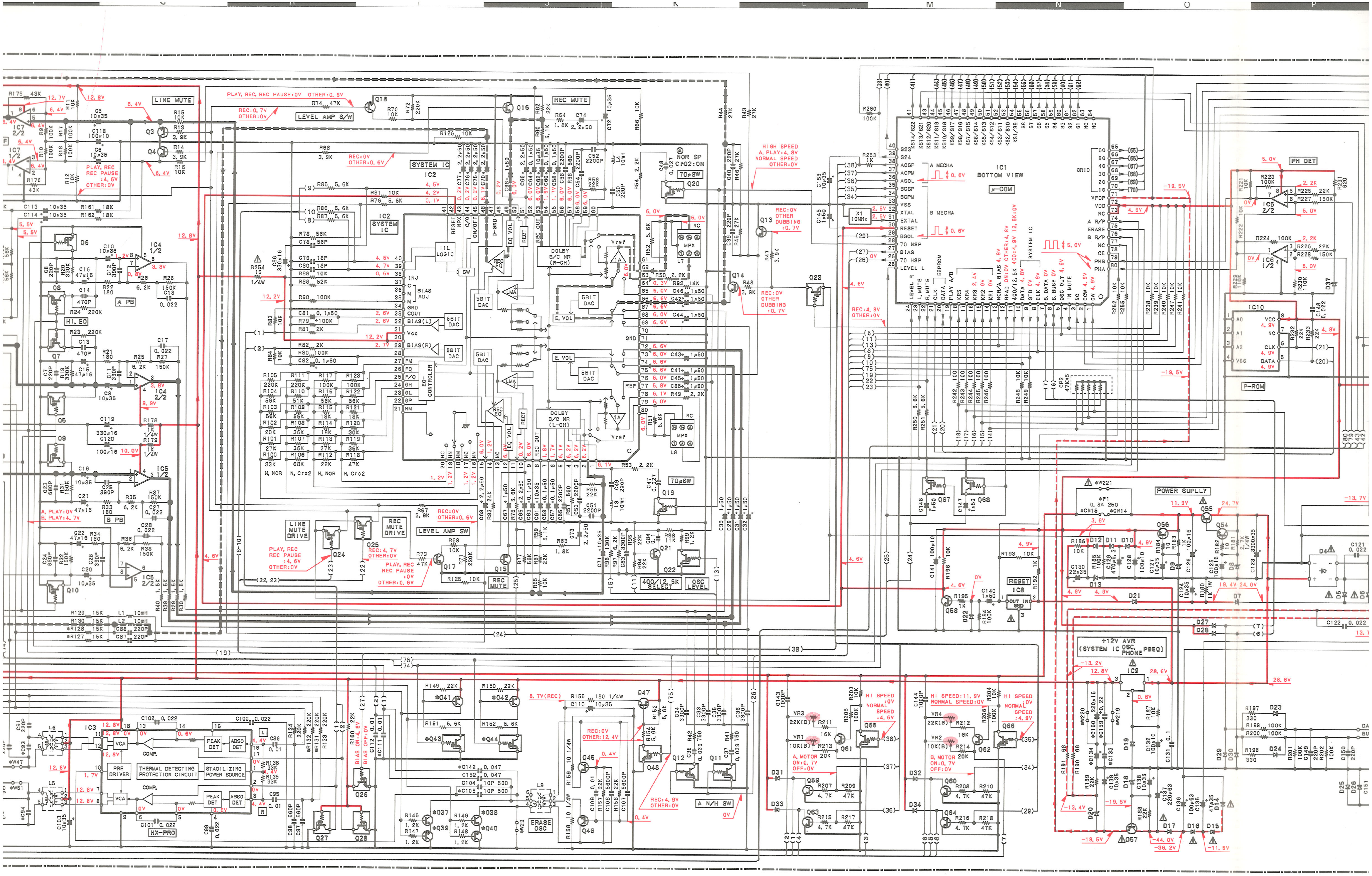
Refer to the schematic diagram for the values of resistors and capacitors.

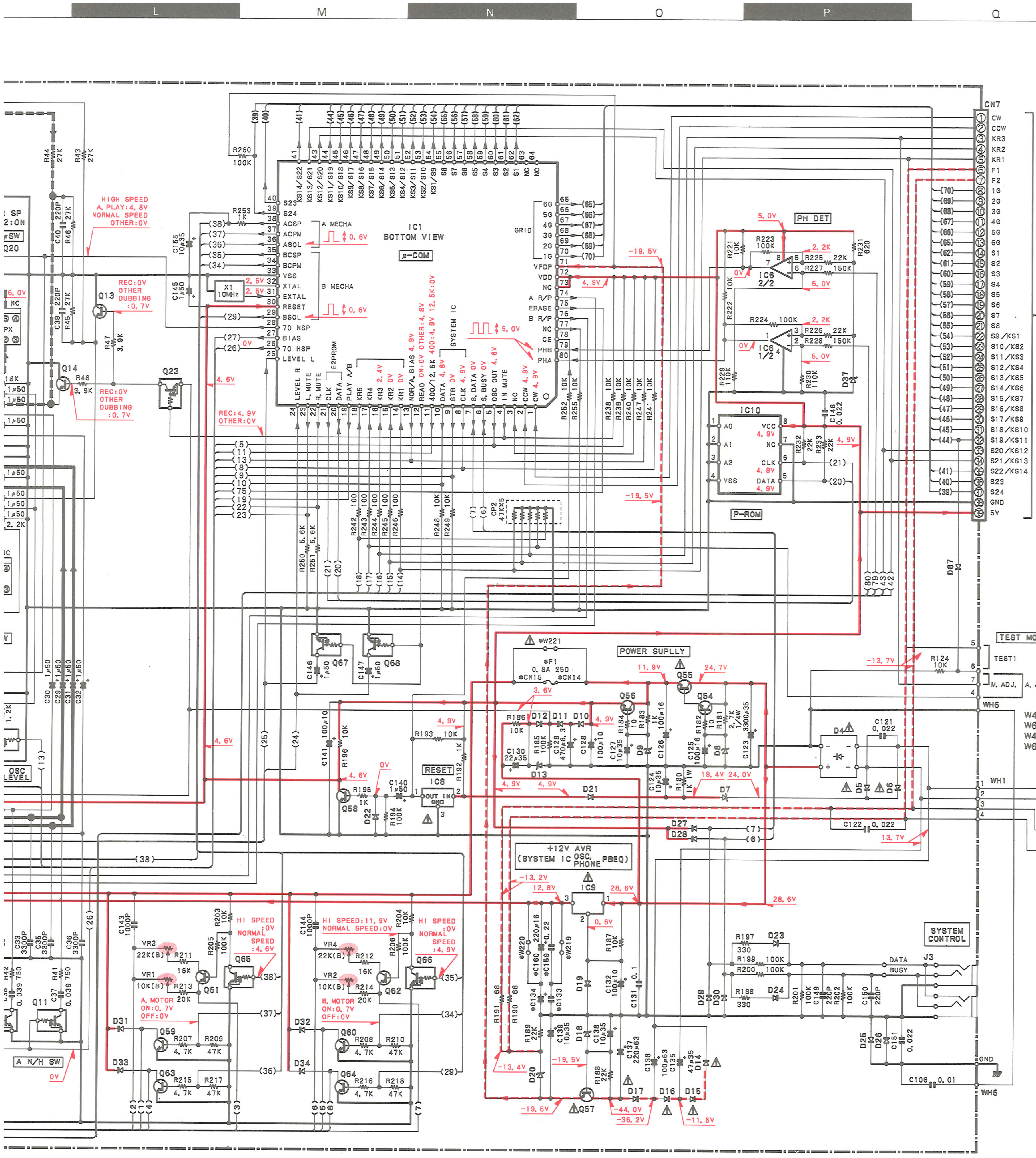
IC1 :CXP82540-115Q
IC2 :HA12167FB
IC3 :UPC1297CA
IC4, 5 :TA8125S
IC6 :BA10393
IC7 :NJM4558D
IC8 :S-806D-Z
IC9 :BA17812T or UPC7812AHF
IC10 :XL24C01AP

Q1~4, 15, 16 :2SD1302(S, T)
Q5~12, 19, 20, 22, 26~28, 43, 44, 48~50, 53, 65~68 :UN4212 or DTC124ES
Q13, 14, 17, 18, 21, 45, 46, 58 :2SC3311A(Q, R) or 2SC2458(Y, GR)
Q23~25 :UN4112 or DTA124ES
Q29~36, 51, 52, 54 :2SC1845(F, E)
Q37~40 :2SC2003(L, K)
Q41, 42 :2SA992(F, E)
Q47 :2SA1534A(R, S)
Q55 :2SD2374
Q56 :2SC3940A(R, S)
Q57 :2SA1535A
Q59, 60, 63, 64 :2SC3246
Q61, 62 :2SA1309A(Q, R) or 2SA1048(Y, GR)

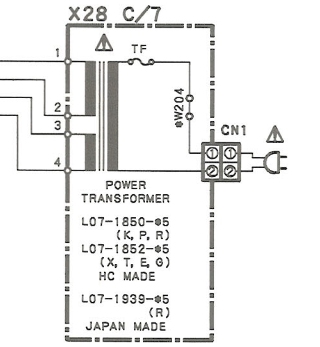
D2~3, 5, 6, 10~12, 14~17, 19, 21~30, 35, 36, 38~77, 80, 81 :1SS133 or HSS104
D4 :D3SBA20F03 or RBV-402LFA
D7 :HZS6, 8N(B2) or RD6, 8ES(B2)
D8 :HZS13N(B2) or RD13ES(B2)
D9, 20 :HZS5, 6N(B2) or RD5, 6ES(B2)
D13 :HZS3, 9N(B2) or RD3, 9ES(B2)
D18 :HZS20N(B2) or RD20ES(B2)
D31~34 :S5688B or 1SR139-100
D37 :HZS2, 7N(B2) or RD2, 7ES(B2)
D79 :1SS199


X28-270X-XX A/7
X28-(G/7)
PH
RPEH
COM(BLUE)
Rch(RED)
Lch(WHITE)
E(YELLOW)
E(GRAY)
PHONES
REC IN
PLAY OUT
LINE MUTE
BUFF
LEVEL AMP S/W
REC MUTE
SYSTEM IC
IC2
A PB
B PB
HI, EQ
A/B SW
R/P SELECT
LINE MUTE DRIVE
REC MUTE DRIVE
LEVEL AMP SW
DOLBY B/C NR (R-CH)
DOLBY B/C NR (L-CH)
EQ-CONTROLLER
5BIT DAC
E. VOL
I2L LOGIC
REC EQ
LMA
HX-PRO
VCA
PRE DRIVER
THERMAL DETECTING PROTECTION CIRCUIT
STABILIZING POWER SOURCE
PEAK DET
ABSO DET
COMP.
ERASE OSC
KX-W6070 CN2
KX-W4070 CN2
CN13
CN3
CN5
CN6
A MECHA KX-W4070:D40-1397-05
A MECHA KX-W6070:D40-1396-05
B MECHA KX-W4070:D40-1399-05
B MECHA KX-W6070:D40-1399-05
PLAY HEAD
R/P HEAD
ERASE HEAD
MOTOR
PHOTO REFLECTOR
TO CN2
TO CN3
TO CN5
TO CN6
PLAY, REC, REC PAUSE:0V OTHER:0, 6V
REC:0, 7V OTHER:0V
PLAY, REC REC PAUSE :4, 6V OTHER:0V
NORMAL:1, 2V CrO2:0V
A, PLAY:0V B, PLAY:4, 7V
REC:4, 9V OTHER:0V
REC:4, 7V OTHER:0V
8, 7V(REC)
REC:0V OTHER:12, 4V
BIAS ON:4, 6V BIAS OFF:0V

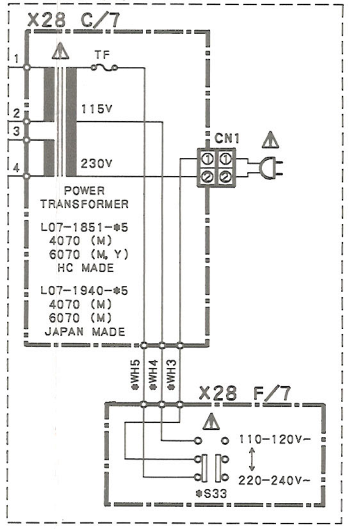

G
H
I
J
K
L
M
N
O
P
LINE MUTE
LEVEL AMP S/W
REC MUTE
SYSTEM IC
IC2
PLAY, REC, REC PAUSE:0V OTHER:0.6V
REC:0.7V OTHER:0V
REC:0V OTHER:0.6V
PLAY, REC REC PAUSE :4.6V OTHER:0V
NOR SP CrO2:ON
70μSW
Q20
HIGH SPEED A. PLAY:4.8V NORMAL SPEED OTHER:0V
REC:0V OTHER DUBBING :0.7V
REC:0V OTHER DUBBING :0.7V
IC1 BOTTOM VIEW
μ-COM
A MECHA
B MECHA
GRID
PH DET
IC6 2/2
IC6 1/2
IC10
P-ROM
IC7 2/2
IC4 1/2
IC4 2/2
IC5 1/2
IC5 2/2
A PB
B PB
HI. EQ
A. PLAY:0V B. PLAY:4.7V
IIL LOGIC
REC EQ
LMA
5BIT DAC
DOLBY B/C NR (R-CH)
DOLBY B/C NR (L-CH)
E. VOL
MPX
Vref
EQ-CONTROLER
BIAS ADJ
LINE MUTE DRIVE
REC MUTE DRIVE
LEVEL AMP SW
400/12.5K SELECT
OSC LEVEL
POWER SUPPLY
RESET IC8
+12V AVR (SYSTEM IC OSC, PHONE PBEQ)
IC9
IC3
VCA
PEAK DET
ABSO DET
COMP.
PRE DRIVER
THERMAL DETECTING PROTECTION CIRCUIT
STABILIZING POWER SOURCE
HX-PRO
BIAS ON:4.6V BIAS OFF:0V
8.7V(REC)
REC:0V OTHER:12.4V
ERASE OSC
A N/H SW
REC:4.9V OTHER:0V
HI SPEED :0V NORMAL SPEED :4.6V
HI SPEED:11.9V NORMAL SPEED:0V
HI SPEED :0V NORMAL SPEED :4.9V
A. MOTOR ON:0.7V OFF:0V
B. MOTOR ON:0.7V OFF:0V
REC:4.9V OTHER:0V
28.6V
-13.7V


L
M
N
O
P
Q
R
S
T
U
CN7
CW
CCW
KR3
KR2
KR1
F1
F2
1G
2G
3G
4G
5G
6G
S1
S2
S3
S4
S5
S6
S7
S8
S9/KS1
S10/KS2
S11/KS3
S12/KS4
S13/KS5
S14/KS6
S15/KS7
S16/KS8
S17/KS9
S18/KS10
S19/KS11
S20/KS12
S21/KS13
S22/KS14
S23
S24
GND
5V
IC1
BOTTOM VIEW
μ-COM
GRID
A MECHA
B MECHA
SYSTEM IC
E2PROM
X1 10MHz
PH DET
IC6 2/2
IC6 1/2
IC10
P-ROM
POWER SUPPLY
RESET
IC8
+12V AVR
(SYSTEM IC OSC, PHONE, PBEQ)
IC9
SYSTEM CONTROL
J3
DATA
BUSY
TEST MODE
TEST1
M. ADJ.
A. ADJ.
WH1
WH6
GND
HIGH SPEED
A. PLAY:4. 8V
NORMAL SPEED
OTHER:0V
REC:0V
OTHER
DUBBING
:0. 7V
REC:4. 9V
OTHER:0V
HI SPEED
NORMAL
SPEED
:4. 6V
HI SPEED:11. 9V
NORMAL SPEED:0V
A. MOTOR
ON:0. 7V
OFF:0V
B. MOTOR
ON:0. 7V
OFF:0V
OSC LEVEL
A N/H SW
-19. 5V
-13. 2V
12. 8V
28. 6V
-13. 4V
-44. 0V
-36. 2V
-11. 5V
11. 9V
24. 7V
19. 4V
24. 0V
-13. 7V
13. 7V

W4070 (K, P, R, T, E, G)
W6070 (K, P, R, X, T, E, G) ] CHINA MADE
W4070 (R)
W6070 (R) ] JAPAN MADE


X28 C/7
TF
W204
CN1
POWER TRANSFORMER
L07-1850-05 (K, P, R)
L07-1852-05 (X, T, E, G)
HC MADE
L07-1939-05 (R)
JAPAN MADE

W4070 (M, Y)
W6070 (M, Y) ] CHINA MADE
W4070 (M)
W6070 (M) ] JAPAN MADE


X28 C/7
TF
115V
230V
CN1
POWER TRANSFORMER
L07-1851-05
4070 (M)
6070 (M, Y)
HC MADE
L07-1940-05
4070 (M)
6070 (M)
JAPAN MADE
WH5
WH4
WH3
X28 F/7
110-120V~
220-240V~
S33

TO X28 CN8 Ⓐ 2/2

X28-270X-XX

| MODEL NAME | DESTINATION |  | UNIT NO. | C89, 90, 105<br>C111, 142,<br>K1 D2<br>Q29~44, 49<br>R137~144<br>127, 128<br>131, 132 | C93, 94 | W29, 47, 51<br>61, 65<br>222~224<br>227 | WH3<br>WH4<br>WH5<br>S33 | W204 |
|---|---|---|---|---|---|---|---|---|
|  | COUNTRY | ABB. |  |  |  |  |  |  |
| KX-W6070 JAPAN MADE | MEXICO | R | 0-12 | YES | 220P | NO | NO | YES |
|  | GENERAL MARKET | M | 0-23 |  |  |  | YES | NO |
| KX-W6070 CHINA MADE | PX | Y | 0-21 |  |  |  |  |  |
|  | GENERAL MARKET | M |  |  |  |  |  |  |
|  | AUSTRALIA | X | 2-71 |  |  |  | NO | YES |
|  | ENGLAND | T |  |  |  |  |  |  |
|  | EUROPE | E |  |  |  |  |  |  |
|  | GERMANY | G |  |  |  |  |  |  |
|  | USA | K | 0-10 |  |  |  |  |  |
|  | CANADA | P |  |  |  |  |  |  |
|  | MEXICO | R |  |  |  |  |  |  |
| KX-W4070 JAPAN MADE | MEXICO | R | 0-13 | NO | 150P | YES | NO | YES |
|  | GENERAL MARKET | M | 0-24 |  |  |  | YES | NO |
| KX-W4070 CHINA MADE | PX | Y | 0-22 |  |  |  |  |  |
|  | GENERAL MARKET | M |  |  |  |  |  |  |
|  | ENGLAND | T | 2-72 |  |  |  | NO | YES |
|  | EUROPE | E |  |  |  |  |  |  |
|  | GERMANY | G |  |  |  |  |  |  |
|  | USA | K | 0-11 |  |  |  |  |  |
|  | CANADA | P |  |  |  |  |  |  |
|  | MEXICO | R |  |  |  |  |  |  |

| MODEL NAME | ABB. | UNIT NO. | F1<br>CN14, 15<br>W219, 220 | C159<br>C160<br>W221 | C133 | C134 |
|---|---|---|---|---|---|---|
| KX-W6070 JAPAN MADE | R | 0-12 | YES | NO | 0. 1 | 100μ16 |
|  | M | 0-23 | NO | YES | 0. 22 | 220μ16 |
| KX-W6070 CHINA MADE | Y | 0-21 |  |  |  |  |
|  | M |  |  |  |  |  |
|  | X | 2-71 |  |  |  |  |
|  | T |  |  |  |  |  |
|  | E |  |  |  |  |  |
|  | G |  |  |  |  |  |
|  | K | 0-10 | YES | NO | 0. 1 | 100μ16 |
|  | P |  |  |  |  |  |
|  | R |  |  |  |  |  |
| KX-W4070 JAPAN MADE | R | 0-13 | YES | NO | 0. 1 | 100μ16 |
|  | M | 0-24 | NO | YES | 0. 22 | 220μ16 |
| KX-W4070 CHINA MADE | Y | 0-22 |  |  |  |  |
|  | M |  |  |  |  |  |
|  | T | 2-72 |  |  |  |  |
|  | E |  |  |  |  |  |
|  | G |  |  |  |  |  |
|  | K | 0-11 | YES | NO | 0. 1 | 100μ16 |
|  | P |  |  |  |  |  |
|  | R |  |  |  |  |  |

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lacture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarisation doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleicspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmessen. Dabei schwanken die Meßwerte aufgrund von Unterschie-den zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vomagnetie-rrungsschaltung wurden in der Aufnahame-Betriebsart gemessen.

CATION : For continued safety, replace safety crytical components only with manufacturer's recommended parts (refer to pars list). ⚠ indicates safety crytical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out ( exposed parts are acceptably insulated from the supply circuit ) before the appliance is returned to the customer.

| | |
|---|---|
| ▬▬▬▬ | SIGNAL LINE |
| ‒ ‒ ‒ ‒ | RECORDING LINE |
| ━━━━ | GND LINE |
| ▬▬▬▬ | +B LINE |
| ‒ ‒ ‒ ‒ | −B LINE |

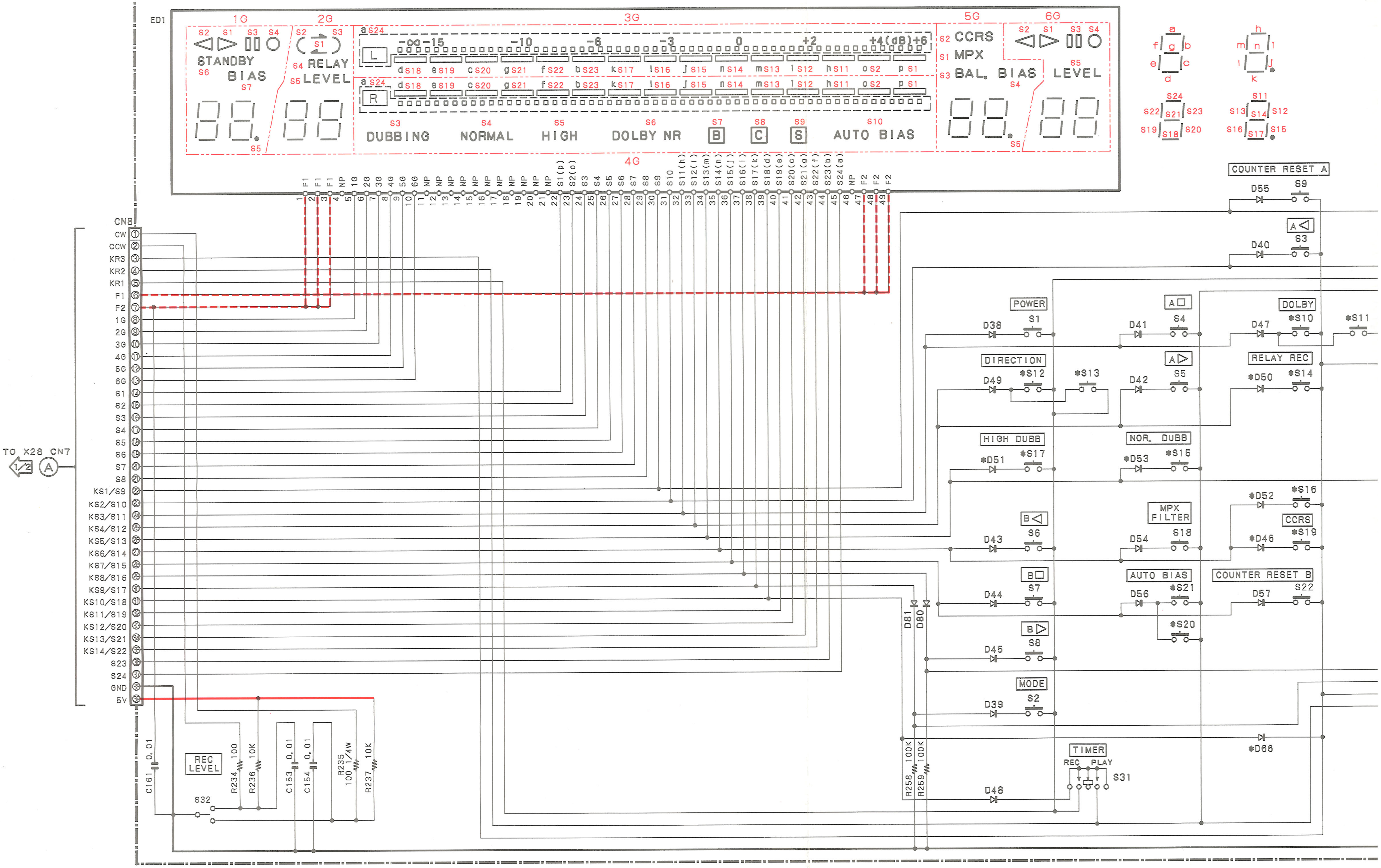
1/2

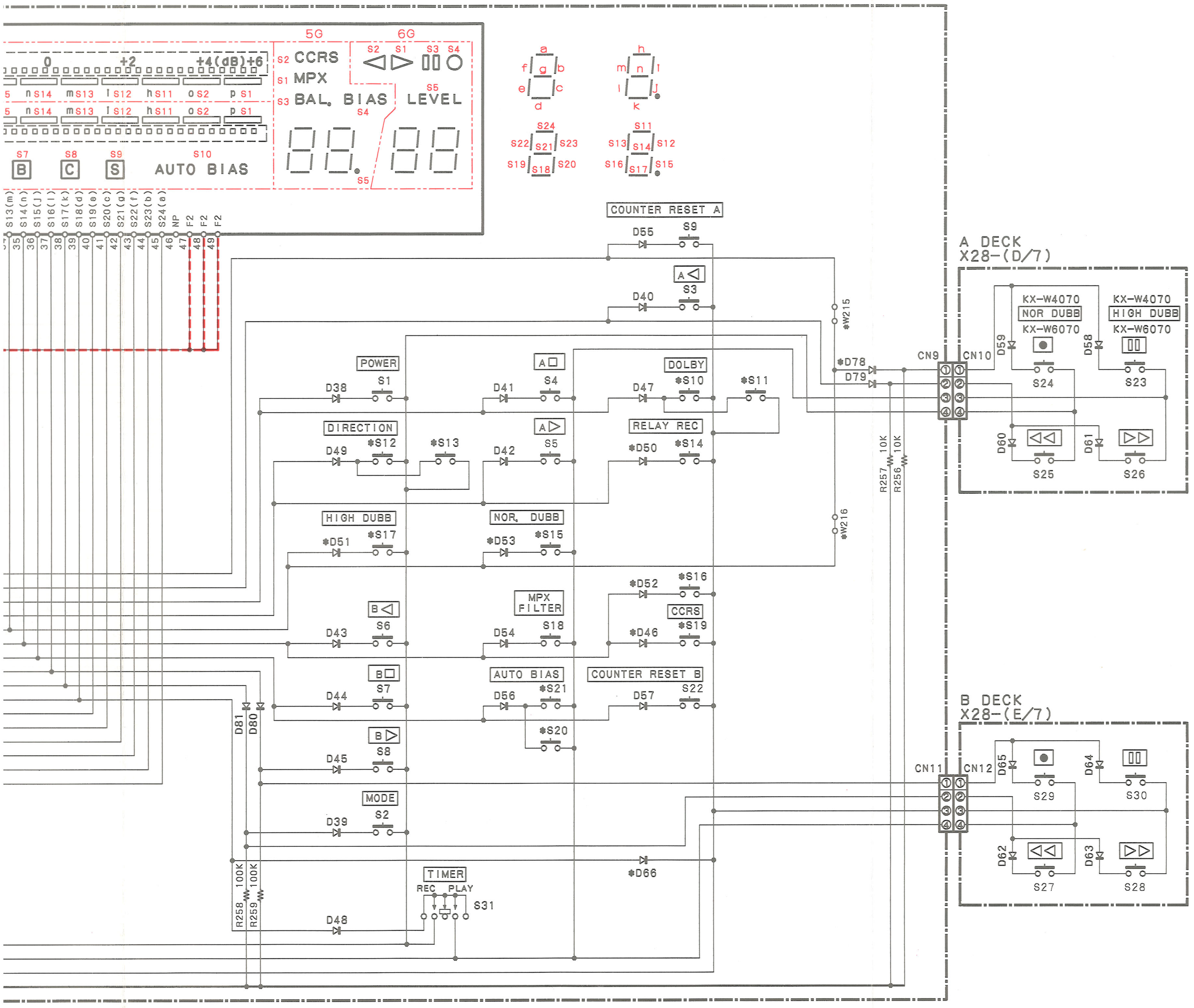
KX-W4070/W6070

KENWOOD

Y26-3970-10

X28-270X-XX (B/7) (CHINA MADE)(JAPAN MADE)


ED1
1G
2G
3G
4G
5G
6G
STANDBY
BIAS
RELAY
LEVEL
-∞ -15 -10 -6 -3 0 +2 +4(dB)+6
L
R
DUBBING
NORMAL
HIGH
DOLBY NR
B
C
S
AUTO BIAS
CCRS
MPX
BAL. BIAS
LEVEL
F1 F1 F1 NP 1G 2G 3G 4G 5G 6G NP NP NP NP NP NP NP NP NP NP NP S1(p) S2(o) S3 S4 S5 S6 S7 S8 S9 S10 S11(h) S12(l) S13(m) S14(n) S15(j) S16(i) S17(k) S18(d) S19(e) S20(c) S21(g) S22(f) S23(b) S24(a) NP F2 F2 F2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
CN8
CW
CCW
KR3
KR2
KR1
F1
F2
1G
2G
3G
4G
5G
6G
S1
S2
S3
S4
S5
S6
S7
S8
KS1/S9
KS2/S10
KS3/S11
KS4/S12
KS5/S13
KS6/S14
KS7/S15
KS8/S16
KS9/S17
KS10/S18
KS11/S19
KS12/S20
KS13/S21
KS14/S22
S23
S24
GND
5V
TO X28 CN7
1/2
A
COUNTER RESET A
D55
S9
A◁
D40
S3
POWER
D38
S1
A□
D41
S4
DOLBY
D47
*S10
*S11
DIRECTION
D49
*S12
*S13
A▷
D42
S5
RELAY REC
*D50
*S14
HIGH DUBB
*D51
*S17
NOR. DUBB
*D53
*S15
*D52
*S16
B◁
D43
S6
MPX FILTER
D54
S18
CCRS
*D46
*S19
B□
D44
S7
AUTO BIAS
D56
*S21
COUNTER RESET B
D57
S22
*S20
D81
D80
B▷
D45
S8
MODE
D39
S2
*D66
TIMER
REC PLAY
S31
D48
R258 100K
R259 100K
C161 0.01
REC LEVEL
S32
R234 100
R236 10K
C153 0.01
C154 0.01
R235 100 1/4W
R237 10K

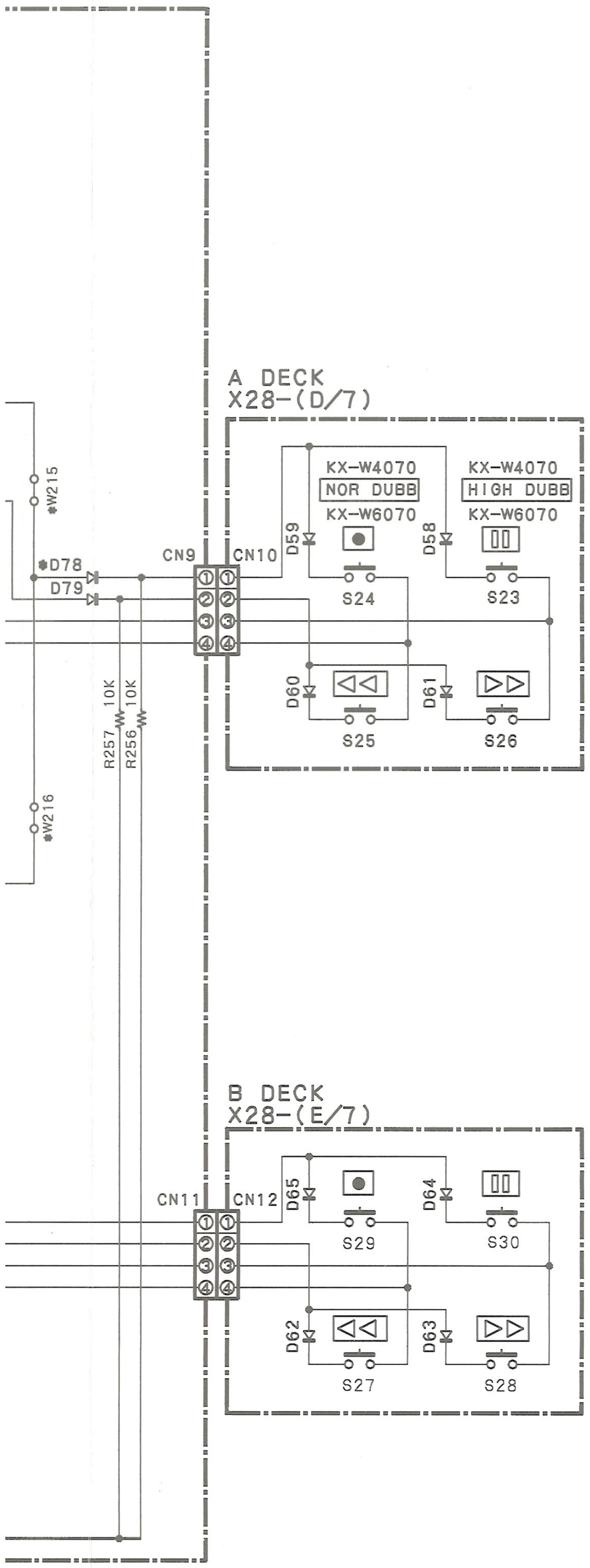

AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
5G
6G
0
+2
+4(dB)+6
CCRS
MPX
BAL. BIAS
LEVEL
AUTO BIAS
B
C
S
COUNTER RESET A
D55
S9
D40
S3
POWER
S1
D38
D41
S4
DOLBY
D47
✽S10
✽S11
DIRECTION
D49
✽S12
✽S13
D42
S5
RELAY REC
✽D50
✽S14
HIGH DUBB
✽D51
✽S17
NOR. DUBB
✽D53
✽S15
✽W215
✽W216
✽D78
D79
CN9
CN10
A DECK
X28-(D/7)
KX-W4070
NOR DUBB
KX-W6070
HIGH DUBB
D59
D58
S24
S23
D60
D61
S25
S26
R257 10K
R256 10K
✽D52
✽S16
MPX FILTER
CCRS
D43
S6
D54
S18
✽D46
✽S19
D44
S7
AUTO BIAS
D56
✽S21
COUNTER RESET B
D57
S22
D81
D80
D45
S8
✽S20
MODE
D39
S2
✽D66
TIMER
REC
PLAY
S31
R258 100K
R259 100K
D48
B DECK
X28-(E/7)
CN11
CN12
D65
D64
S29
S30
D62
D63
S27
S28

GND LINE
+B LINE
−B LINE

## X28-270X-XX

| MODEL NAME | DESTINATION |  | UNIT NO. | S10, 12, 14, 15<br>17, 19, 21<br>D46, 50, 51<br>53, 66<br>W215 | S1<br>1<br>D5<br>W2 |
|---|---|---|---|---|---|
|  | COUNTRY | ABB. |  |  |  |
| KX-W6070 JAPAN MADE | MEXICO | R | 0-12 | YES |  |
|  | GENERAL MARKET | M | 0-23 |  |  |
| KX-W6070 CHINA MADE | PX | Y | 0-21 |  |  |
|  | GENERAL MARKET | M |  |  |  |
|  | AUSTRALIA | X | 2-71 |  |  |
|  | ENGLAND | T |  |  |  |
|  | EUROPE | E |  |  |  |
|  | GERMANY | G |  |  |  |
|  | USA | K | 0-10 |  |  |
|  | CANADA | P |  |  |  |
|  | MEXICO | R |  |  |  |
| KX-W4070 JAPAN MADE | MEXICO | R | 0-13 | NO | Y |
|  | GENERAL MARKET | M | 0-24 |  |  |
| KX-W4070 CHINA MADE | PX | Y | 0-22 |  |  |
|  | GENERAL MARKET | M |  |  |  |
|  | ENGLAND | T | 2-72 |  |  |
|  | EUROPE | E |  |  |  |
|  | GERMANY | G |  |  |  |
|  | USA | K | 0-11 |  |  |
|  | CANADA | P |  |  |  |
|  | MEXICO | R |  |  |  |

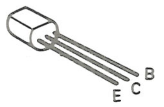
| | |
|---|---|
| ED1 | :FIP6AMW6 |
| D38~66 | :1SS133 or HSS104 |
| D78 | :1SS199(KX-W6070)<br>:1SS133 or HSS104 (KX-W4070) |
| D79 | :1SS199 |



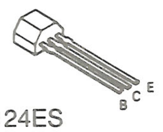
X28-270X-XX

| MODEL NAME | DESTINATION | | UNIT NO. | S10, 12, 14, 15 17, 19, 21 D46, 50, 51 53, 66 W215 | S11, 13 16, 20 D52 W216 | D78 |
|---|---|---|---|---|---|---|
| | COUNTRY | ABB. | | | | |
| KX-W6070 JAPAN MADE | MEXICO | R | 0-12 | YES | NO | 1SS199 |
| | GENERAL MARKET | M | 0-23 | | | |
| KX-W6070 CHINA MADE | PX | Y | 0-21 | | | |
| | GENERAL MARKET | M | | | | |
| | AUSTRALIA | X | 2-71 | | | |
| | ENGLAND | T | | | | |
| | EUROPE | E | | | | |
| | GERMANY | G | | | | |
| | USA | K | 0-10 | | | |
| | CANADA | P | | | | |
| | MEXICO | R | | | | |
| KX-W4070 JAPAN MADE | MEXICO | R | 0-13 | NO | YES | 1SS133 or HSS104 |
| | GENERAL MARKET | M | 0-24 | | | |
| KX-W4070 CHINA MADE | PX | Y | 0-22 | | | |
| | GENERAL MARKET | M | | | | |
| | ENGLAND | T | 2-72 | | | |
| | EUROPE | E | | | | |
| | GERMANY | G | | | | |
| | USA | K | 0-11 | | | |
| | CANADA | P | | | | |
| | MEXICO | R | | | | |

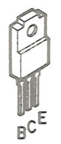
| | |
|---|---|
| ED1 | :FIP6AMW6 |
| D38-66 | :1SS133 or HSS104 |
| D78 | :1SS199(KX-W6070)<br>:1SS133 or HSS104 (KX-W4070) |
| D79 | :1SS199 |



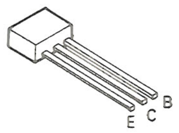
2SA1534A 2SC3246
2SA992 2SC3940A
2SC1845 2SD1302
2SC2003



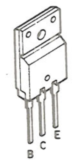
DTA124ES
DTC124ES
UN4112
2SA1048
2SC2458



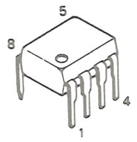
2SA1535A



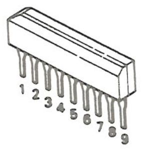
UN4212
2SA1309A
2SC3311A



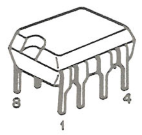
2SD2374



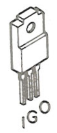
NJM4558D



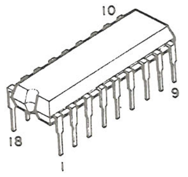
TA8125S



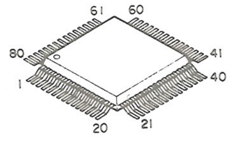
BA10393
XL24C01AP



BA17812T
UPC7812AHF



UPC1297CA



HA1216FB

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance, une casette ètant insérée en mode du lacture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarrité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleicspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochomigen Spannungsmessen. Dabei schwanken die Meßwerte aufgrund von Unterschie-den zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vomagnetie-rrungsschaltung wurden in der Aufnahame-Betriebsart gemessen.

CATION : For continued safety, replace safety crytical components only with manufacturer's recommended parts (refer to pars list). ⚠ indicates safety crytical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out ( exposed parts are acceptably insulated from the supply circuit ) before the appliance is returned to the customer.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

——— GND LINE
——— +B LINE
- - - - - - - - -B LINE

2/2

**KX-W4070/W6070**

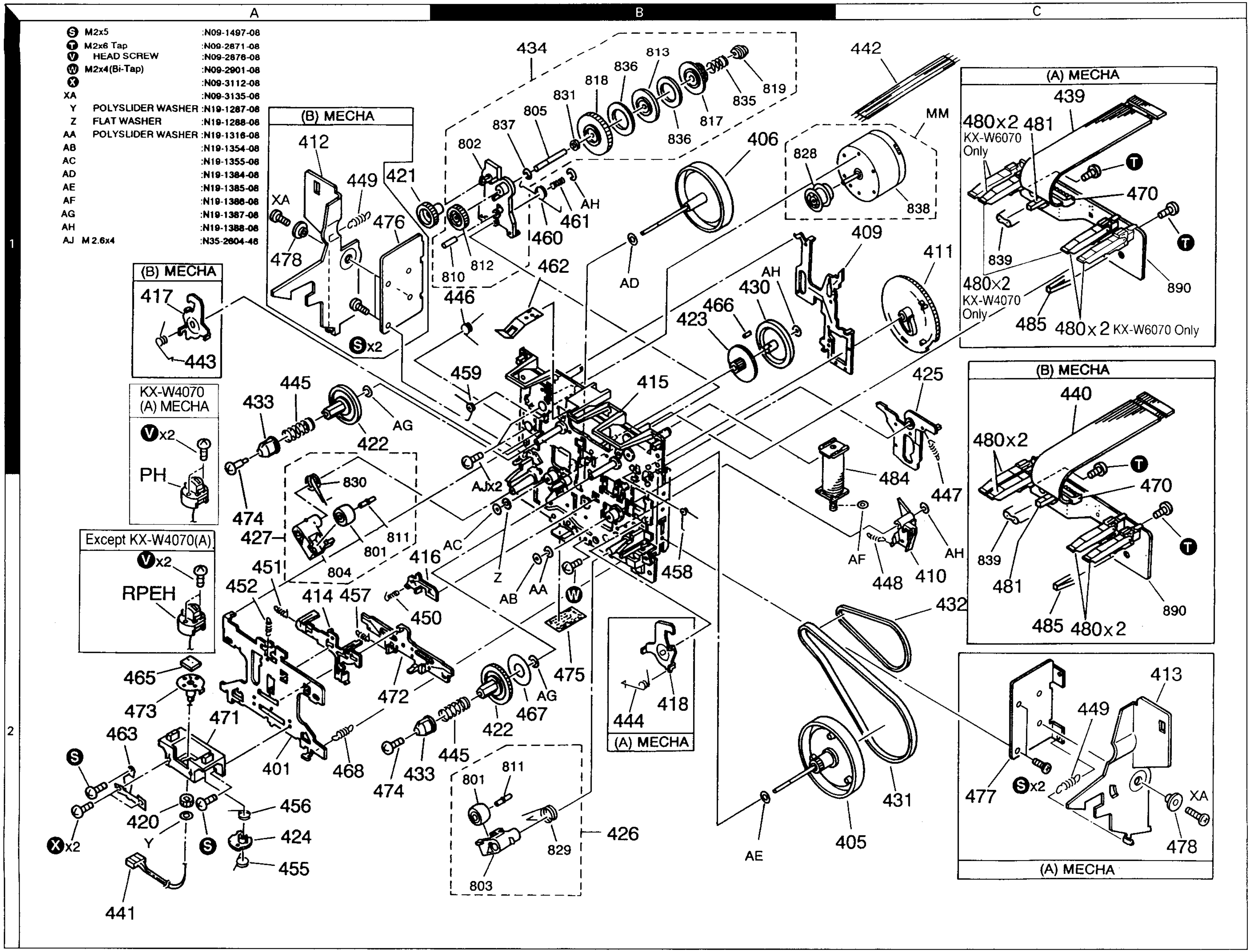
KENWOOD

Y26-3970-10

# KX-W4070/W6070

## EXPLODED VIEW(MECHANISM)

| | | |
|---|---|---|
| Ⓢ | M2x5 | :N09-1497-08 |
| Ⓣ | M2x6 Tap | :N09-2871-08 |
| Ⓥ | HEAD SCREW | :N09-2876-08 |
| Ⓦ | M2x4(Bi-Tap) | :N09-2901-08 |
| Ⓧ | | :N09-3112-08 |
| XA | | :N09-3135-08 |
| Y | POLYSLIDER WASHER | :N19-1287-08 |
| Z | FLAT WASHER | :N19-1288-08 |
| AA | POLYSLIDER WASHER | :N19-1316-08 |
| AB | | :N19-1354-08 |
| AC | | :N19-1355-08 |
| AD | | :N19-1384-08 |
| AE | | :N19-1385-08 |
| AF | | :N19-1386-08 |
| AG | | :N19-1387-08 |
| AH | | :N19-1388-08 |
| AJ | M 2.6x4 | :N35-2604-46 |


A
B
C
1
2
(A) MECHA
(B) MECHA
KX-W4070
(A) MECHA
Except KX-W4070(A)
PH
RPEH
Ⓥx2
Ⓢx2
Ⓧx2
Ⓢ
Ⓣ
Ⓦ
AJx2
480x2 KX-W6070 Only
480x2 KX-W4070 Only
480x2 KX-W6070 Only
480x2
MM
XA
Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
401
405
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801
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813
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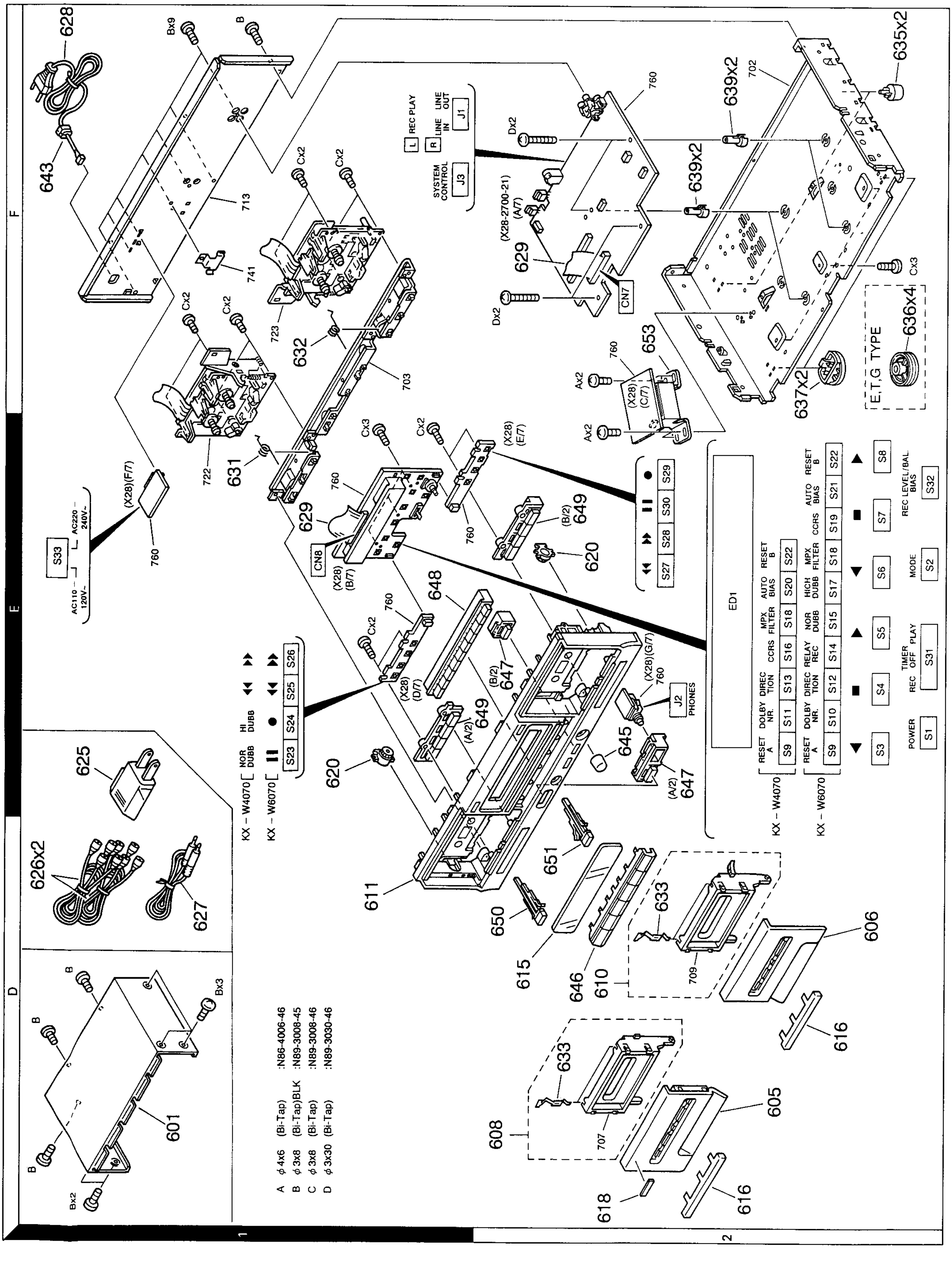
890

Parts with the exploded numbers larger than 700 are not supplied.

# KX-W4070/W6070

## EXPLODED VIEW(UINT)


628
643
Bx9
B
713
741
Cx2
Cx2
723
632
703
722
631
Cx2
Cx2
(X28)(F/7)
760
S33
AC110 - 120V-
AC220 - 240V-
KX - W4070
KX - W6070
NOR DUBB
HI DUBB
S23
S24
S25
S26
620
649
(A/2)
(X28)(D/7)
760
Cx2
648
647
(B/2)
611
625
626x2
627
601
B
Bx3
Bx2
608
633
707
605
618
616
606
709
610
646
615
650
651
645
647
(A/2)
J2
PHONES
(X28)(G/7)
629
CN8
(X28)(B/7)
Cx3
Cx2
(X28)(E/7)
649
(B/2)
620
S27
S28
S30
S29
ED1
RESET A
DOLBY NR.
DIREC TION
CCRS
MPX FILTER
AUTO BIAS
RESET B
S9
S11
S13
S16
S18
S20
S22
RESET A
DOLBY NR.
DIREC TION
RELAY REC
NOR DUBB
HICH DUBB
MPX FILTER
CCRS
AUTO BIAS
RESET B
S9
S10
S12
S14
S15
S17
S18
S19
S21
S22
POWER
S1
S3
REC
TIMER OFF
PLAY
S4
S31
S5
MODE
S2
S6
S7
REC LEVEL/BAL. BIAS
S32
S8
Ax2
Ax2
760
(X28)(C/7)
653
Dx2
Dx2
629
(X28-2700-21)(A/7)
CN7
SYSTEM CONTROL
J3
L
REC PLAY
R
LINE IN
LINE OUT
J1
760
639x2
639x2
702
635x2
Cx3
E,T,G TYPE
636x4
637x2
D
E
F
1
2

A φ4x6 (Bi-Tap) :N86-4006-46
B φ3x8 (Bi-Tap)BLK :N89-3008-45
C φ3x8 (Bi-Tap) :N89-3008-46
D φ3x30 (Bi-Tap) :N89-3030-46

Parts with the exploded numbers larger than 700 are not supplied.

# KX-W4070/W6070

## PARTS LIST

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

**No.1**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| **KX-W4070** | | | | | | |
| 601 | 1D | | A01-3196-11 | METALLIC CABINET | | |
| 605 | 2D | ⁎ | A53-1851-12 | CASSETTE LID | | A |
| 606 | 2D | ⁎ | A53-1846-12 | CASSETTE LID | | B |
| 608 | 2D | ⁎ | A53-1848-13 | CASSETTE HOLDER ASSY | | |
| 610 | 2D | ⁎ | A53-1850-13 | CASSETTE HOLDER ASSY | | |
| 611 | 1D | ⁎ | A60-0666-01 | PANEL | | |
| 615 | 2D | ⁎ | B03-2926-03 | DRESSING PLATE | | |
| 616 | 2D | ⁎ | B10-2072-14 | FRONT GLASS | | |
| 618 | 2D | | B43-0287-04 | KENWOOD BADGE | | |
| - | | | B46-0092-43 | WARRANTY CARD | KY | H |
| - | | | B46-0121-33 | WARRANTY CARD | P | H |
| - | | | B46-0197-00 | QUESTIONAIRE CARD | KR | |
| - | | | B46-0310-03 | WARRANTY CARD | TEG | H |
| - | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | H |
| - | | | B58-0945-03 | CAUTION CARD | T | H |
| - | | | B58-0964-13 | CAUTION CARD (UL) | KRY | |
| - | | | B58-0965-13 | CAUTION CARD (T,X) | T | H |
| - | | | B58-0966-13 | CAUTION CARD | ME | |
| - | | | B58-0967-03 | CAUTION CARD | P | H |
| - | | | B58-0970-13 | CAUTION CARD | RG | |
| - | | | B59-1104-00 | SERVICE DIRECTORY | Y | H |
| - | | ⁎ | B60-1903-00 | INSTRUCTION MANUAL(ENGLISH) | KRPYMT | |
| - | | ⁎ | B60-1903-00 | INSTRUCTION MANUAL(ENGLISH) | E | |
| - | | ⁎ | B60-1904-00 | INSTRUCTION MANUAL(FRENCH) | PE | H |
| - | | ⁎ | B60-1905-00 | INSTRUCTION MANUAL(CHINESE) | M | |
| - | | ⁎ | B60-1906-00 | INSTRUCTION MANUAL(SPANISH) | RME | |
| - | | ⁎ | B60-1907-00 | INSTRUCTION MANUAL(DUT,ITA) | E | H |
| - | | ⁎ | B60-2128-00 | INSTRUCTION MANUAL(GERMANY) | EG | H |
| - | | ⁎ | B60-2130-00 | INSTRUCTION MANUAL(TAIWANESE) | M | |
| 620 | 1E,2E | ⁎ | D39-0314-05 | DAMPER | | |
| ⚠ 625 | 1E | | E03-0115-05 | AC PLUG ADAPTER | M | |
| 626 | 1D | | E30-0505-05 | AUDIO CORD | | |
| 627 | 1D | | E30-2733-05 | CORD WITH PLUG | | |
| ⚠ 628 | 1F | | E30-2592-15 | AC POWER CORD | M | J |
| ⚠ 628 | 1F | | E30-2650-05 | AC POWER CORD | R | J |
| ⚠ 628 | 1F | | E30-2787-05 | AC POWER CORD | KRP | H |
| ⚠ 628 | 1F | | E30-2788-05 | AC POWER CORD | MEG | H |
| ⚠ 628 | 1F | | E30-2789-05 | AC POWER CORD | Y | H |
| ⚠ 628 | 1F | | E30-2791-05 | AC POWER CORD | T | H |
| 629 | 1E,2F | ⁎ | E35-1042-05 | FLAT CABLE (39PIN FFC) | | |
| 631 | 1E | ⁎ | G01-3750-14 | TORSION COIL SPRING | | A |
| 632 | 1F | ⁎ | G01-3751-14 | TORSION COIL SPRING | | B |
| 633 | 2D | | G02-1057-14 | FLAT SPRING | | |
| - | | ⁎ | H10-5923-02 | POLYSTYRENE FOAMED FIXTURE(L) | KRPYME | H |
| - | | ⁎ | H10-5923-02 | POLYSTYRENE FOAMED FIXTURE(L) | G | H |
| - | | ⁎ | H10-5924-02 | POLYSTYRENE FOAMED FIXTURE(R) | KRPYME | H |
| - | | ⁎ | H10-5925-02 | POLYSTYRENE FOAMED FIXTURE(L) | T | H |
| - | | ⁎ | H10-5926-02 | POLYSTYRENE FOAMED FIXTURE(R) | T | H |
| - | | ⁎ | H10-5972-02 | POLYSTYRENE FOAMED FIXTURE(L) | | J |
| - | | ⁎ | H10-5973-02 | POLYSTYRENE FOAMED FIXTURE(R) | | J |
| - | | | H20-0586-04 | PROTECTION COVER | M | |

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**Y**: AAFES(Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components.

⁎ New Parts
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**No.2**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | KRPYME | H |
| - | | | H25-0382-04 | PROTECTION BAG | KRPYTE | |
| - | | | H25-0651-04 | PROTECTION BAG (0232 PRINTED) | T | H |
| - | | ⁎ | H50-1331-14 | ITEM CARTON CASE | KRPYEG | H |
| - | | ⁎ | H50-1332-14 | ITEM CARTON CASE | M | H |
| - | | ⁎ | H50-1333-14 | ITEM CARTON CASE | T | H |
| - | | ⁎ | H50-1397-14 | ITEM CARTON CASE | | J |
| 635 | 2F | | J02-0366-15 | FOOT (REAR) | KRPYM | |
| 636 | 2F | | J02-1024-05 | FOOT (FRONT,REAR) | TEG | H |
| 637 | 2F | | J02-1040-05 | FOOT (FRONT) | KRPYM | |
| 639 | 2F | | J19-3703-14 | UNIT HOLDER | | J |
| 639 | 2F | | J19-3730-04 | UNIT HOLDER | | H |
| ⚠ 643 | 1F | | J42-0083-05 | POWER CORD BUSHING | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 645 | 2E | | K29-5828-04 | KNOB (REC LEVEL) | | |
| 646 | 2E | | K29-6050-13 | KNOB (RVS,STOP,FWD) | | |
| 647 | 2E | ⁎ | K29-6052-03 | KNOB (POWER,MODE) | | |
| 648 | 1E | ⁎ | K29-6048-03 | KNOB (RESET A/B,DOLBY,CCRS) | | |
| 649 | 1E | ⁎ | K29-6049-03 | KNOB (BUBB,REW,FF,REC/ARM) | | |
| 650 | 2E | ⁎ | K29-6056-04 | KNOB (EJECT) | | A |
| 651 | 2D | ⁎ | K29-6057-04 | KNOB (EJECT) | | B |
| ⚠ 653 | 2F | ⁎ | L07-1850-05 | POWER TRANSFORMER | KRP | H |
| ⚠ 653 | 2F | ⁎ | L07-1851-05 | POWER TRANSFORMER | YM | H |
| ⚠ 653 | 2F | ⁎ | L07-1852-05 | POWER TRANSFORMER | TEG | H |
| ⚠ 653 | 2F | ⁎ | L07-1939-05 | POWER TRANSFORMER | R | J |
| ⚠ 653 | 2F | ⁎ | L07-1940-05 | POWER TRANSFORMER | M | J |
| **KX-W6070** | | | | | | |
| 601 | 1D | | A01-3196-11 | METALLIC CABINET | | |
| 605 | 2D | ⁎ | A53-1845-12 | CASSETTE LID | | A |
| 606 | 2D | ⁎ | A53-1846-12 | CASSETTE LID | | B |
| 608 | 2D | ⁎ | A53-1848-13 | CASSETTE HOLDER ASSY | | A |
| 610 | 2D | ⁎ | A53-1850-13 | CASSETTE HOLDER ASSY | | B |
| 611 | 1D | ⁎ | A60-0665-01 | PANEL | | |
| 615 | 2D | ⁎ | B03-2926-03 | DRESSING PLATE | | |
| 616 | 2D | ⁎ | B10-2072-14 | FRONT GLASS | | |
| 618 | 2D | | B43-0287-04 | KENWOOD BADGE | | |
| - | | | B46-0092-43 | WARRANTY CARD | KY | H |
| - | | | B46-0096-53 | WARRANTY CARD | X | H |
| - | | | B46-0121-33 | WARRANTY CARD | P | H |
| - | | | B46-0197-00 | QUESTIONAIRE CARD | KR | |
| - | | | B46-0310-03 | WARRANTY CARD | TEG | H |
| - | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | H |
| - | | | B58-0945-03 | CAUTION CARD | T | H |
| - | | | B58-0964-13 | CAUTION CARD (UL) | KRY | |
| - | | | B58-0965-13 | CAUTION CARD | XT | H |
| - | | | B58-0966-13 | CAUTION CARD | ME | |
| - | | | B58-0967-03 | CAUTION CARD | P | H |
| - | | | B58-0970-13 | CAUTION CARD | RG | |
| - | | | B59-1104-00 | SERVICE DIRECTORY | Y | H |
| - | | ⁎ | B60-1898-00 | INSTRUCTION MANUAL(ENGLISH) | KRPYMX | |
| - | | ⁎ | B60-1898-00 | INSTRUCTION MANUAL(ENGLISH) | TE | |

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# KX-W4070/W6070

## PARTS LIST

∗ New Parts
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### No.3

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| - |  | ∗ | B60-1899-00 | INSTRUCTION MANUAL(FRENCH) | PE | H |
| - |  | ∗ | B60-1900-00 | INSTRUCTION MANUAL(CHINESE) | M |  |
| - |  | ∗ | B60-1901-00 | INSTRUCTION MANUAL(SPANISH) | RME |  |
| - |  | ∗ | B60-1902-00 | INSTRUCTION MANUAL(DUT,ITA) | E | H |
| - |  | ∗ | B60-2127-00 | INSTRUCTION MANUAL(GERMANY) | EG | H |
| - |  | ∗ | B60-2129-00 | INSTRUCTION MANUAL(TAIWANESE) | M | J |
| 620 | 1E,2F |  | D39-0314-05 | DAMPER |  |  |
| ⚠ 625 | 1E |  | E03-0115-05 | AC PLUG ADAPTER | M |  |
| 626 | 1D |  | E30-0505-05 | AUDIO CORD |  |  |
| 627 | 1D |  | E30-2733-05 | CORD WITH PLUG |  |  |
| ⚠ 628 | 1F |  | E30-2592-15 | AC POWER CORD | M | J |
| ⚠ 628 | 1F |  | E30-2650-05 | AC POWER CORD | R | J |
| ⚠ 628 | 1F |  | E30-2787-05 | AC POWER CORD | KRP | H |
| ⚠ 628 | 1F |  | E30-2788-05 | AC POWER CORD | MEG | H |
| ⚠ 628 | 1F |  | E30-2789-05 | AC POWER CORD | Y | H |
| ⚠ 628 | 1F |  | E30-2790-05 | AC POWER CORD | X | H |
| ⚠ 628 | 1F |  | E30-2791-05 | AC POWER CORD | T | H |
| 629 | 1E |  | E35-1042-05 | FLAT CABLE (39PIN FFC) |  |  |
| 631 | 1E |  | G01-3750-14 | TORSION COIL SPRING |  | A |
| 632 | 1F |  | G01-3751-14 | TORSION COIL SPRING |  | B |
| 633 | 2D |  | G02-1057-14 | FLAT SPRING |  |  |
| - |  |  | H10-5923-02 | POLYSTYRENE FOAMED FIXTURE(L) | KRPYMX | H |
| - |  | ∗ | H10-5923-02 | POLYSTYRENE FOAMED FIXTURE(L) | EG | H |
| - |  | ∗ | H10-5924-02 | POLYSTYRENE FOAMED FIXTURE(R) | KRPYMX | H |
| - |  | ∗ | H10-5924-02 | POLYSTYRENE FOAMED FIXTURE(R) | EG | H |
| - |  | ∗ | H10-5925-02 | POLYSTYRENE FOAMED FIXTURE(L) | T | H |
| - |  | ∗ | H10-5926-02 | POLYSTYRENE FOAMED FIXTURE(R) | T | H |
| - |  | ∗ | H10-5972-02 | POLYSTYRENE FOAMED FIXTURE(L) |  | J |
| - |  | ∗ | H10-5973-02 | POLYSTYRENE FOAMED FIXTURE(R) |  | J |
| - |  |  | H13-0190-04 | CARTON BOARD | X | H |
| - |  |  | H20-0586-04 | PROTECTION COVER | M |  |
| - |  |  | H25-0232-04 | PROTECTION BAG (235X350X0.03) | KRPYMX |  |
| - |  |  | H25-0232-04 | PROTECTION BAG (235X350X0.03) | EG |  |
| - |  |  | H25-0382-04 | PROTECTION BAG | KRPYXT |  |
| - |  |  | H25-0382-04 | PROTECTION BAG | EG |  |
| - |  |  | H25-0651-04 | PROTECTION BAG (0232 PRINTED) | T | H |
| - |  | ∗ | H50-1328-14 | ITEM CARTON CASE | KRPYXE | H |
| - |  | ∗ | H50-1328-14 | ITEM CARTON CASE | G | H |
| - |  | ∗ | H50-1329-14 | ITEM CARTON CASE | M | H |
| - |  | ∗ | H50-1330-14 | ITEM CARTON CASE | T | H |
| - |  | ∗ | H50-1396-14 | ITEM CARTON CASE |  |  |
| 635 | 2F |  | J02-0366-15 | FOOT (REAR) | KRPYMX |  |
| 636 | 2F |  | J02-1024-05 | FOOT (FRONT,REAR) | TEG | H |
| 637 | 2F |  | J02-1040-05 | FOOT (FRONT) | KRPYMX |  |
| 639 | 2F | ∗ | J19-3703-14 | UNIT HOLDER |  | J |
| 639 | 2F | ∗ | J19-3730-04 | UNIT HOLDER |  | H |
| ⚠ 643 | 1F |  | J42-0083-05 | POWER CORD BUSHING |  |  |
| - |  |  | J61-0307-05 | WIRE BAND |  |  |
| 645 | 2E |  | K29-5828-04 | KNOB (REC LEVEL) |  |  |
| 646 | 2D |  | K29-6050-13 | KNOB (RVS,STOP,FWD) |  |  |
| 647 | 2E | ∗ | K29-6052-03 | KNOB (POWER,MODE) |  |  |
| 648 | 1E | ∗ | K29-6053-03 | KNOB (RESET,DOLBY,DUBB ,CCRS) |  |  |

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### No.4

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| 649 | 1E,2E | ∗ | K29-6054-03 | KNOB (PAUSE,REC/ARM,REW,FF) |  |  |
| 650 | 2D | ∗ | K29-6056-04 | KNOB (EJECT) |  | A |
| 651 | 2D | ∗ | K29-6057-04 | KNOB (EJECT) |  | B |
| ⚠ 653 | 2F | ∗ | L07-1850-05 | POWER TRANSFORMER | KRP | H |
| ⚠ 653 | 2F | ∗ | L07-1851-05 | POWER TRANSFORMER | YM | H |
| ⚠ 653 | 2F | ∗ | L07-1852-05 | POWER TRANSFORMER | XTEG | H |
| ⚠ 653 | 2F | ∗ | L07-1939-05 | POWER TRANSFORMER | R | J |
| ⚠ 653 | 2F | ∗ | L07-1940-05 | POWER TRANSFORMER | M | J |
| **RECORD/PLAYBACK UNIT(X28-270X-XX)** |  |  |  |  |  |  |
| C1 ,2 |  |  | CQ93FMG1H272J | MYLAR 2700PF J |  |  |
| C3 -6 |  |  | CE04KW1V100M | ELECTRO 10UF 35WV |  |  |
| C7 ,8 |  |  | CC45FSL1H221J | CERAMIC 220PF J |  |  |
| C9 ,10 |  |  | CE04KW1V100M | ELECTRO 10UF 35WV |  |  |
| C11 ,12 |  |  | CK45FB1H391K | CERAMIC 390PF K |  |  |
| C13 ,14 |  |  | CK45FB1H471K | CERAMIC 470PF K |  |  |
| C15 ,16 |  |  | CE04KW1C470M | ELECTRO 47UF 16WV |  |  |
| C17 ,18 |  |  | CQ93FMG1H223J | MYLAR 0.022UF J |  |  |
| C19 ,20 |  |  | CE04KW1V100M | ELECTRO 10UF 35WV |  |  |
| C21 ,22 |  |  | CE04KW1C470M | ELECTRO 47UF 16WV |  |  |
| C23 ,24 |  |  | CK45FB1H681K | CERAMIC 680PF K |  |  |
| C25 ,26 |  |  | CK45FB1H391K | CERAMIC 390PF K |  |  |
| C27 ,28 |  |  | CQ93FMG1H223J | MYLAR 0.022UF J |  |  |
| C29 -32 |  |  | CE04KW1H010M | ELECTRO 1.0UF 50WV |  |  |
| C33 -36 |  |  | CK45FB1H332K | CERAMIC 3300PF K |  |  |
| C37 ,38 |  |  | CQ93FMG1H393J | MYLAR 0.039UF J |  |  |
| C39 ,40 |  |  | CC45FSL1H221J | CERAMIC 220PF J |  |  |
| C41 -46 |  |  | CE04KW1H010M | ELECTRO 1.0UF 50WV |  |  |
| C47 ,48 |  |  | CQ93FMG1H273J | MYLAR 0.027UF J |  |  |
| C49 ,50 |  |  | CC45FSL1H221J | CERAMIC 220PF J |  |  |
| C51 -56 |  |  | CQ93FMG1H222J | MYLAR 2200PF J |  |  |
| C57 -60 |  |  | CE04KW1H0R1M | ELECTRO 0.1UF 50WV |  |  |
| C61 ,62 |  |  | CE04KW1V100M | ELECTRO 10UF 35WV |  |  |
| C63 ,64 |  |  | CE04KW1H0R1M | ELECTRO 0.1UF 50WV |  |  |
| C65 ,66 |  |  | CE04KW1H2R2M | ELECTRO 2.2UF 50WV |  |  |
| C67 ,68 |  |  | CE04KW1H010M | ELECTRO 1.0UF 50WV |  |  |
| C69 ,70 |  |  | CE04KW1H2R2M | ELECTRO 2.2UF 50WV |  |  |
| C71 ,72 |  |  | CE04KW1V100M | ELECTRO 10UF 35WV |  |  |
| C73 -77 |  |  | CE04KW1H2R2M | ELECTRO 2.2UF 50WV |  |  |
| C78 |  |  | CC45FSL1H560J | CERAMIC 56PF J |  |  |
| C79 ,80 |  |  | CC45FSL1H180J | CERAMIC 18PF J |  |  |
| C81 ,82 |  |  | CE04KW1H0R1M | ELECTRO 0.1UF 50WV |  |  |
| C83 |  |  | CQ93FMG1H332J | MYLAR 3300PF J |  |  |
| C84 |  |  | CQ93FMG1H104J | MYLAR 0.10UF J |  |  |
| C85 |  |  | CE04KW1H010M | ELECTRO 1.0UF 50WV |  |  |
| C86 |  |  | CE04KW1C331M | ELECTRO 330UF 16WV |  |  |
| C87 ,88 |  |  | CC45FSL1H221J | CERAMIC 220PF J |  |  |
| C89 -94 |  |  | C91-1436-05 | FILM 220PF J |  | 6 |
| C91 ,92 |  |  | C91-1436-05 | FILM 220PF J |  | 4 |
| C93 ,94 |  |  | C91-1434-05 | FILM 150PF J |  | 4 |
| C95 ,96 |  |  | CK45FF1H103Z | CERAMIC 0.010UF Z |  |  |
| C97 ,98 |  |  | CK45FB1H561K | CERAMIC 560PF K |  |  |
| C99 -102 |  |  | CK45FF1H223Z | CERAMIC 0.022UF Z |  |  |
| C103 |  |  | CE04KW1V100M | ELECTRO 10UF 35WV |  |  |
| C104 |  |  | CC45FSL2H100D | CERAMIC 10PF D |  | 4 |

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6: KX-W6070
H: CHINA MADE
J: JAPAN MADE

⚠ indicates safety critical components.

# KX-W4070/W6070

## PARTS LIST

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**No.5**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| C104,105 | | | CC45FSL2H100D | CERAMIC 10PF D | | 6 |
| C106 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C107,108 | | | CQ93FMG1H562J | MYLAR 5600PF J | | |
| C109 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C110 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C111,112 | | | CQ93HP2A103J | MYLAR 0.010UF J | | 6 |
| C112 | | | CQ93HP2A103J | MYLAR 0.010UF J | | 4 |
| C113,114 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C115,116 | | | CE04KW1H470M | ELECTRO 47UF 50WV | | |
| C117 | | | CE04KW1C330M | ELECTRO 33UF 16WV | | |
| C118 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C119 | | | CE04KW1C331M | ELECTRO 330UF 16WV | | |
| C120 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C121,122 | | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C123 | | | CE04KW1V332M | ELECTRO 3300UF 35WV | | |
| C124 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C125,126 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C127 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C128 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C129 | | | CE04KW0J471M | ELECTRO 470UF 6.3WV | | |
| C130 | | | CE04KW1V220M | ELECTRO 22UF 35WV | | |
| C131 | | | CQ93FMG1H104J | MYLAR 0.10UF J | | |
| C132 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C133 | | | CF92FV1H224J | MF-C 0.22UF J | YMXTEG | |
| C133 | | | CQ93FMG1H104J | MYLAR 0.10UF J | KRP | |
| C134 | | | CE04LW1C101M | ELECTRO 100UF 16WV | KRP | |
| C134 | | | CE04LW1C221M | ELECTRO 220UF 16WV | YMXTEG | |
| C135 | | | CE04KW1V470M | ELECTRO 47UF 35WV | | |
| C136 | | | CE04DW1J101M | ELECTRO 100UF 63WV | | |
| C137 | | | CE04KW1J221M | ELECTRO 220UF 63WV | | |
| C138,139 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C140 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C141 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C142 | | | CQ93FMG1H473J | MYLAR 0.047UF J | | 6 |
| C143,144 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C145-147 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C148 | | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C149,150 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C151 | | | CK45FF1H223Z | CERAMIC 0.022UF Z | | |
| C152 | | | CQ93FMG1H473J | MYLAR 0.047UF J | | |
| C153,154 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C155 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | |
| C159 | | | CF92FV1H224J | MF-C 0.22UF J | YMXTEG | |
| C160 | | | CE04LW1C221M | ELECTRO 220UF 16WV | YMXTEG | |
| C161 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| CN7 | 2F | | E40-4179-05 | FLAT CABLE CONNCTOR (39PIN) | | |
| CN8 | 1E | | E40-4219-05 | FLAT CABLE CONNCTOR (39PIN) | | |
| J1 | | | E63-0046-15 | PHONO JACK (4PIN) | | J |
| J1 | | | E63-0136-05 | PHONO JACK (4PIN) | | H |
| J2 | | | E11-0208-05 | PHONE JACK | | |
| J3 | | | E11-0188-05 | MINIATURE PHONE JACK(2P1N) | | |
| F1 | | * | F50-0062-05 | FUSE(5X20) | KRP | |
| CN14,15 | | | J13-0075-05 | FUSE CLIP | KRP | |

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Y: PX(Far East, Hawaii) T: England E: Europe G: Germany 6: KX-W6070 J: JAPAN MADE
Y: AAFES(Europe) X: Australia M: Other Areas
⚠ indicates safety critical components.

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

**No.6**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| L1 -4 | | | L40-1035-29 | SMALL FIXED INDUCTOR(10MH, J) | | |
| L5 ,6 | | | L32-0556-05 | BIAS OSCILATING COIL | | |
| L7 ,8 | | | L79-1209-05 | LC FILTER | | |
| L9 | | | L32-0570-05 | BIAS OSCILATING COIL | | |
| X1 | | | L78-0294-05 | RESONATOR (10.000M) | | |
| CP2 | | | R90-0818-05 | MULTI-COMP 47KX5 J 1/6W | | |
| R155 | | | RD14NB2E181J | RD 180 J 1/4W | | |
| ⚠ R177 | | | RD14NB2E150J | RD 15 J 1/4W | | |
| R180 | | | RS14KB3A102J | FL-PROOF RS 1.0K J 1W | | |
| R254 | | | RD14NB2E150J | RD 15 J 1/4W | | |
| VR1 ,2 | | | R12-3685-05 | TRIMMING POT.(10K) | | |
| VR3 ,4 | | | R12-3686-05 | TRIMMING POT.(22K) | | |
| K1 ,2 | | | S76-0018-05 | MAGNETIC RELAY | | 6 |
| K2 | | | S76-0018-05 | MAGNETIC RELAY | | 4 |
| S1 -10 | | * | S70-0031-05 | TACT SWITCH | | 6 |
| S1 -9 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S11 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S12 | | * | S70-0031-05 | TACT SWITCH | | 6 |
| S13 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S14 ,15 | | * | S70-0031-05 | TACT SWITCH | | 6 |
| S16 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S17 -19 | | * | S70-0031-05 | TACT SWITCH | | 6 |
| S18 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S20 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S21 -30 | | * | S70-0031-05 | TACT SWITCH | | 6 |
| S22 -30 | | * | S70-0031-05 | TACT SWITCH | | 4 |
| S31 | | | S31-1036-05 | SLIDE SWITCH | | |
| ⚠ S33 | | | S31-2131-05 | SLIDE SWITCH (POWER TYPE) | YM | |
| S32 | | | T99-0546-05 | ROTARY ENCODER | | |
| D2 | | | HSS104 | DIODE | | 6 |
| D2 | | | 1SS133 | DIODE | | 6 |
| D3 | | | HSS104 | DIODE | | |
| D3 | | | 1SS133 | DIODE | | |
| ⚠ D4 | | | D3SBA20F03 | DIODE | | |
| ⚠ D4 | | | RBV-402LFA | DIODE | | |
| ⚠ D5 ,6 | | | HSS104 | DIODE | | |
| ⚠ D5 ,6 | | | 1SS133 | DIODE | | |
| D7 | | | HZS6.8N(B2) | ZENER DIODE | | |
| D7 | | | RD6.8ES(B2) | ZENER DIODE | | |
| D8 | | | HZS13N(B2) | ZENER DIODE | | |
| D8 | | | RD13ES(B2) | ZENER DIODE | | |
| D9 | | | HZS5.6N(B2) | ZENER DIODE | | |
| D9 | | | RD5.6ES(B2) | ZENER DIODE | | |
| D10 -12 | | | HSS104 | DIODE | | |
| D10 -12 | | | 1SS133 | DIODE | | |
| D13 | | | HZS3.9N(B2) | ZENER DIODE | | |
| D13 | | | RD3.9ES(B2) | ZENER DIODE | | |
| ⚠ D14 -17 | | | HSS104 | DIODE | | |
| ⚠ D14 -17 | | | 1SS133 | DIODE | | |
| D18 | | | HZS20N(B) | ZENER DIODE | | |
| D18 | | | RD20ES(B) | ZENER DIODE | | |
| D19 | | | HSS104 | DIODE | | |
| D19 | | | 1SS133 | DIODE | | |

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⚠ indicates safety critical components.

# KX-W4070/W6070

## PARTS LIST

✱ New Parts
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Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

**No.7**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| D20 | | | HZS5.6N(B2) | ZENER DIODE | | |
| D20 | | | RD5.6ES(B2) | ZENER DIODE | | |
| D21 -30 | | | HSS104 | DIODE | | |
| D21 -30 | | | 1SS133 | DIODE | | |
| D31 -34 | | | S5688B | DIODE | | |
| D31 -34 | | | 1SR139-100 | DIODE | | |
| D35 ,36 | | | HSS104 | DIODE | | |
| D35 ,36 | | | 1SS133 | DIODE | | |
| D37 | | | HZS2.7N(B2) | ZENER DIODE | | |
| D37 | | | RD2.7ES(B2) | ZENER DIODE | | |
| D38 -45 | | | HSS104 | DIODE | | 4 |
| D38 -45 | | | 1SS133 | DIODE | | 4 |
| D38 -51 | | | HSS104 | DIODE | | 6 |
| D38 -51 | | | 1SS133 | DIODE | | 6 |
| D47 -49 | | | HSS104 | DIODE | | 4 |
| D47 -49 | | | 1SS133 | DIODE | | 4 |
| D52 | | | HSS104 | DIODE | | 4 |
| D52 | | | 1SS133 | DIODE | | 4 |
| D53 -77 | | | HSS104 | DIODE | | 6 |
| D53 -77 | | | 1SS133 | DIODE | | 6 |
| D54 -65 | | | HSS104 | DIODE | | 4 |
| D54 -65 | | | 1SS133 | DIODE | | 4 |
| D67 -78 | | | HSS104 | DIODE | | 4 |
| D67 -78 | | | 1SS133 | DIODE | | 4 |
| D78 ,79 | | | 1SS199 | DIODE | | 6 |
| D79 | | | 1SS199 | DIODE | | 4 |
| D80 ,81 | | | HSS104 | DIODE | | |
| D80 ,81 | | | 1SS133 | DIODE | | |
| ED1 | | | FIP6AMW6 | INDICATOR TUBE | | |
| IC1 | | * | CXP82540-115Q | MI-COM IC | | |
| IC2 | | | HA12167FB | IC(DOLBY B/C, REC EQ) | | |
| IC3 | | | UPC1297CA | IC(DOL HX PRO SYSTEM) | | |
| IC4 ,5 | | | TA8125S | IC(2CH PRE AMP) | | |
| IC6 | | | BA10393 | IC(DUAL COMPALATOR) | | |
| IC7 | | | NJM4558D | IC(OP AMP X2) | | |
| ⚠ IC8 | | | S-806D-Z | ANALOGUE IC | | |
| ⚠ IC9 | | | BA17812T | IC(VOLTAGE REGULATOR/ +12V) | | |
| ⚠ IC9 | | | UPC7812AHF | IC(VOLTAGE REGULATOR/ +12V) | | |
| IC10 | | | XL24C01AP | MEMORY IC | | |
| Q1 -4 | | | 2SD1302(S,T) | TRANSISTOR | | |
| Q5 -12 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q5 -12 | | | UN4212 | TRANSISTOR | | |
| Q13 ,14 | | | 2SC2458(Y,GR) | TRANSISTOR | | |
| Q13 ,14 | | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q15 ,16 | | | 2SD1302(S,T) | TRANSISTOR | | |
| Q17 ,18 | | | 2SC2458(Y,GR) | TRANSISTOR | | |
| Q17 ,18 | | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q19 ,20 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q19 ,20 | | | UN4212 | TRANSISTOR | | |
| Q21 | | | 2SC2458(Y,GR) | TRANSISTOR | | |
| Q21 | | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q22 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q22 | | | UN4212 | TRANSISTOR | | |
| Q23 -25 | | | DTA124ES | DIGITAL TRANSISTOR | | |
| Q23 -25 | | | UN4112 | TRANSISTOR | | |

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|---|---|---|---|---|---|---|---|---|
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⚠ indicates safety critical components.

✱ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

**No.8**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| Q26 -28 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q26 -28 | | | UN4212 | TRANSISTOR | | |
| Q29 -36 | | | 2SC1845(F,E) | TRANSISTOR | | 6 |
| Q37 -40 | | | 2SC2003(L,K) | TRANSISTOR | | 6 |
| Q41 ,42 | | | 2SA992(F,E) | TRANSISTOR | | 6 |
| Q43 ,44 | | | DTC124ES | DIGITAL TRANSISTOR | | 6 |
| Q43 ,44 | | | UN4212 | TRANSISTOR | | 6 |
| Q45 ,46 | | | 2SC2458(Y,GR) | TRANSISTOR | | |
| Q45 ,46 | | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q47 | | | 2SA1534A(R,S) | TRANSISTOR | | |
| Q48 | | | DTC124ES | DIGITAL TRANSISTOR | | 4 |
| Q48 | | | UN4212 | TRANSISTOR | | 4 |
| Q48 -50 | | | DTC124ES | DIGITAL TRANSISTOR | | 6 |
| Q48 -50 | | | UN4212 | TRANSISTOR | | 6 |
| Q50 | | | DTC124ES | DIGITAL TRANSISTOR | | 4 |
| Q50 | | | UN4212 | TRANSISTOR | | 4 |
| Q51 ,52 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q53 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q53 | | | UN4212 | TRANSISTOR | | |
| Q54 | | | 2SC1845(F,E) | TRANSISTOR | | |
| ⚠ Q55 | | | 2SD2374 | TRANSISTOR | | |
| Q56 | | | 2SC3940A(R,S) | TRANSISTOR | | |
| ⚠ Q57 | | | 2SA1535A | TRANSISTOR | | |
| Q58 | | | 2SC2458(Y,GR) | TRANSISTOR | | |
| Q58 | | | 2SC3311A(Q,R) | TRANSISTOR | | |
| Q59 ,60 | | | 2SC3246 | TRANSISTOR | | |
| Q61 ,62 | | | 2SA1048(Y,GR) | TRANSISTOR | | |
| Q61 ,62 | | | 2SA1309A(Q,R) | TRANSISTOR | | |
| Q63 ,64 | | | 2SC3246 | TRANSISTOR | | |
| Q65 -68 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q65 -68 | | | UN4212 | TRANSISTOR | | |
| **MECHANISM ASSY (D40-1397-05 :W4070 , 6-05 : W6070) : A (D40-1399-05) : B** | | | | | | |
| 401 | 2A | | A10-3178-08 | HEAD CHASSIS | | |
| 403 | 1C,2C | | B30-2409-08 | LED SEL2415E | | |
| 405 | 2C | | D01-0175-08 | FLYWHEEL (R) ASSY | | |
| 406 | 1B | | D01-0176-08 | FLYWHEEL (L) ASSY | | |
| 409 | 1C | | D10-3470-08 | SHIFT LEVER | | |
| 410 | 2C | * | D10-3471-18 | HEAD CHANGE ARM | | |
| 411 | 1C | * | D13-1622-18 | CAM GEAR | | |
| 412 | 1A | | D10-3500-08 | EJECT LEVER (L) (B MECHA) | | |
| 413 | 2C | | D10-3501-08 | EJECT LEVER (R) (A MECHA) | | |
| 414 | 2A | | D10-3478-08 | SELET LEVER | | |
| 415 | 1B | | D10-3479-08 | CHASSIS OS ASSY | | |
| 416 | 2A | | D10-3480-08 | C/R LEVER | | |
| 417 | 1A | | D10-3502-08 | ARM (LEFT) (INTER LOCK) | | |
| 418 | 2B | | D10-3503-08 | ARM (RIGHT) (INTER LOCK) | | |
| 420 | 2A | | D13-0981-08 | ROTATION GEAR | | |
| 421 | 1A | | D13-1616-08 | REW GEAR | | |
| 422 | 1A,2B | | D13-1617-08 | REEL GEAR | | |
| 423 | 1B | | D13-1618-08 | IDLER GEAR | | |
| 424 | 2A | | D13-1621-08 | RETURN GEAR | | |
| 425 | 1C | * | D10-3470-08 | TRIGGER ARM | | |
| 426 | 2B | | D14-0367-08 | PINCH ARM (R) ASSY | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
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# KX-W4070/W6070

## PARTS LIST

⁎ New Parts
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Teile ohne Parts No. werden nicht geliefert.

**No.9**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti- nation 仕向 | Re- marks 備考 |
|---|---|---|---|---|---|---|
| 427 | 2A | | D14-0368-08 | PINCH ARM (L) ASSY | | |
| 430 | 1B | | D15-0369-08 | IDLER PULLEY | | |
| 431 | 2C | | D16-0375-08 | DRIVE BELT | | |
| 432 | 2C | | D16-0376-08 | CLUTCH BELT | | |
| 433 | 1A,2A | | D19-0270-18 | REEL CAP (A) | | |
| 434 | 1B | * | D19-0287-18 | CLUTCH ARM ASSY | | |
| 439 | 1C | | E35-0934-08 | 15P FLAT RIBBON WIRE (A MECHA) | | |
| 440 | 1C | | E35-0358-08 | 15P FLAT RIBBON WIRE (B MECHA) | | |
| 441 | 2A | | E35-1005-08 | 3P HEAD WIRE ASSY (A MECHA) | | 4 |
| 441 | 2A | | E35-1006-08 | 5P HEAD WIRE ASSY (B MECHA) | | |
| 441 | 2A | * | E35-1189-08 | 5P HEAD WIRE ASSY (A MECHA) | | 6 |
| 442 | 1C | | E35-0986-08 | MOTOR WIRE | | |
| 443 | 1A | | G01-3706-08 | SPRING (L) (B MECHA) | | |
| 444 | 2B | * | G01-3707-18 | SPRING (R) (A MECHA) | | |
| 445 | 1A,2B | | G01-3709-08 | B.T SPRING | | |
| 446 | 1B | | G01-3710-08 | SHIFT LEVER SP | | |
| 447 | 1C | | G01-3711-08 | TRIGGER ARM SP | | |
| 448 | 2C | | G01-3712-08 | HEAD CHANGE ARM SP | | |
| 449 | 1A,2C | | G01-3708-08 | EJECT SP | | |
| 450 | 2A | | G01-3714-08 | C/R LEVER SP | | |
| 451 | 2A | | G01-3715-08 | SELECT SP | | |
| 452 | 2A | | G01-3716-08 | SHIFT SP | | |
| 455 | 2A | | G01-3718-08 | RETURN SPR | | |
| 456 | 2A | | G01-3719-08 | FWD SPR | | |
| 457 | 2A | | G01-3720-08 | HEAD RETURN PLATE SP | | |
| 458 | 2B | | G01-3721-08 | BRAKE SP (R) | | |
| 459 | 1B | | G01-3722-08 | BRAKE SP (L) | | |
| 460 | 1B | | G01-3724-08 | CLUTCH ARM SPRING (B) | | |
| 461 | 1B | | G01-3725-08 | CLUTCH SP | | |
| 462 | 1B | | G02-0913-08 | PACK SPRING | | |
| 463 | 2A | | G02-1043-08 | AZIMUTH SPR | | |
| 465 | 2A | | G11-2117-08 | HEAD WIRE CLAMP | | |
| 466 | 1B | | G11-2205-08 | TUBE | | |
| 467 | 2B | | G16-0791-08 | REFLECT SEAL | | |
| 468 | 2A | | G01-3739-08 | HEAD CHASSIS SP | | |
| 470 | 1C | | J19-3652-08 | CABLE HOLDER | | |
| 471 | 2A | | J19-3709-08 | HEAD BASE | | |
| 472 | 2A | | J21-6135-08 | HEAD RETURN PLATE | | |
| 473 | 2A | | J21-6199-08 | HEAD PLATE ASSY | | |
| 474 | 2A | | J42-0183-08 | REEL BUSH | | |
| 475 | 2B | | J69-0086-08 | FILAMENT TAPE | | |
| 476 | 1A | | J21-6178-08 | BRACKET (L) (B MECHA) | | |
| 477 | 2C | | J21-6179-08 | BRACKET (R) (A MECHA) | | |
| 478 | 1A,2C | | J31-0851-08 | EJECT COLLAR | | |
| AA | | | N19-1316-08 | POLY WASHER | | |
| AB | | | N19-1354-08 | NYLON WASHER | | |
| AC | | | N19-1355-08 | NYLON WASHER | | |
| AD | | | N19-1384-08 | POLY WASHER | | |
| AE | | | N19-1385-08 | POLY WASHER | | |
| AF | | | N19-1386-08 | POLY WASHER | | |
| AG | | | N19-1387-08 | TEFRON WASHER | | |
| AH | | | N19-1388-08 | POLY WASHER | | |
| AK | | | N09-2900-08 | SCREW | | |

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⁎ New Parts
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Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

**No.10**

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti- nation 仕向 | Re- marks 備考 |
|---|---|---|---|---|---|---|
| S | | | N09-1497-08 | TAP TITE SCREW | | |
| T | | | N09-2871-08 | TAPPING SCREW | | |
| V | | | N09-2876-08 | HEAD SCREW | | |
| W | | | N09-2901-08 | BIND TAP TITE SCREW | | |
| X | | | N09-3112-08 | AZIMUTH SCREW | | |
| XA | | | N09-3135-08 | BIND TAP TITE SCREW 2.6*6 | | |
| Y | | | N19-1287-08 | POLY WASHER | | |
| Z | | | N19-1288-08 | POLY WASHER | | |
| 480 | 1C,2C | | S74-0033-08 | REC SWITCH | | |
| 481 | 1C,2C | | S74-0042-08 | PLAY SWITCH | | |
| 484 | 1C | | T94-0233-08 | SOLENOID ASSY | | |
| 485 | 1C,2C | | T95-0125-08 | PHOTO INTERRUPTER | | |
| MM | 1C | | T42-0687-08 | MOTOR ASSY | | |
| PH | 1A | | T31-0072-08 | ROTATION HD(PB)KP-7442-CS-8352 | | 4 A |
| RPEH | 2A | | T39-0027-08 | ROTATION HD(RP)KC-9242-CB-8354 | | 4 B |
| RPEH | 1A | | T39-0027-08 | ROTATION HD(RP)KC-9242-CB-8354 | | 6 |

L: Scandinavia K: USA P: Canada R: Mexico 4: KX-W4070 A: A DECK
Y: PX(Far East, Hawaii) T: England E: Europe G: Germany 6: KX-W6070 B: B DECK
Y: AAFES(Europe) X: Australia M: Other Areas

⚠ indicates safety critical components.

# KX-W4070/W6070

## SPECIFICATIONS

### [KX-W4070]

| | |
|---|---|
| **Track System** | **4 track, 2 channel stereo** |
| **Recording System** | **AC bias (Frequency: 105 kHz)** |
| **Heads** | **A DECK** |
| | **Playback head ... 1** |
| | **B DECK** |
| | **Playback/recording heads ... 1** |
| | **Erasing head ... 1** |
| **Motors** | **A DECK ... DC motor × 1** |
| | **B DECK ... DC motor × 1** |
| **Wow and Flutter** | **±0.17 % (IEC)** |
| | **±0.28 % (DIN)** |
| | **0.1 % (W.R.M.S)** |
| **Fast Winding Time** | **Approx. 110 seconds (C-60 tape)** |
| **Frequency Response** | |
| **Normal Tape** | **30 Hz to 18,000 Hz, ±3 dB** |
| **$CrO_2$ Tape** | **30 Hz to 19,000 Hz, ±3 dB** |
| **Signal to Noise Ratio** | |
| **Dolby NR OFF** | **56 dB** |
| **(IEC, 250 nWb/m, $CrO_2$ tape)** | |
| **Dolby NR OFF** | **58 dB** |
| **Dolby B NR ON** | **67 dB** |
| **Dolby C NR ON** | **75 dB** |
| **(3rd, H.D., 3 %, $CrO_2$ tape)** | |
| **Harmonic Distortion** | **Less than 1.0 %** |
| **(at 315 Hz, 3rd H.D., 250 nWb/m, $CrO_2$ tape)** | |
| **Input sensitivity/Impedance** | |
| **LINE IN** | **122.8 mV/47 kΩ** |
| **Output Level/Impedance** | |
| **LINE OUT** | **775 mV/1.0 kΩ** |
| **Headphones** | **0.5 mW/32 Ω** |
| **[General]** | |
| **Power Consumption** | **30 W** |
| **Dimensions** | **W: 440 mm (17-5/16")** |
| | **H: 134 mm (5-1/4")** |
| | **D: 269 mm (10-9/16")** |
| **Weight (Net)** | **4.0 kg (8.8 lb)** |

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Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice

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**Note:**

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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